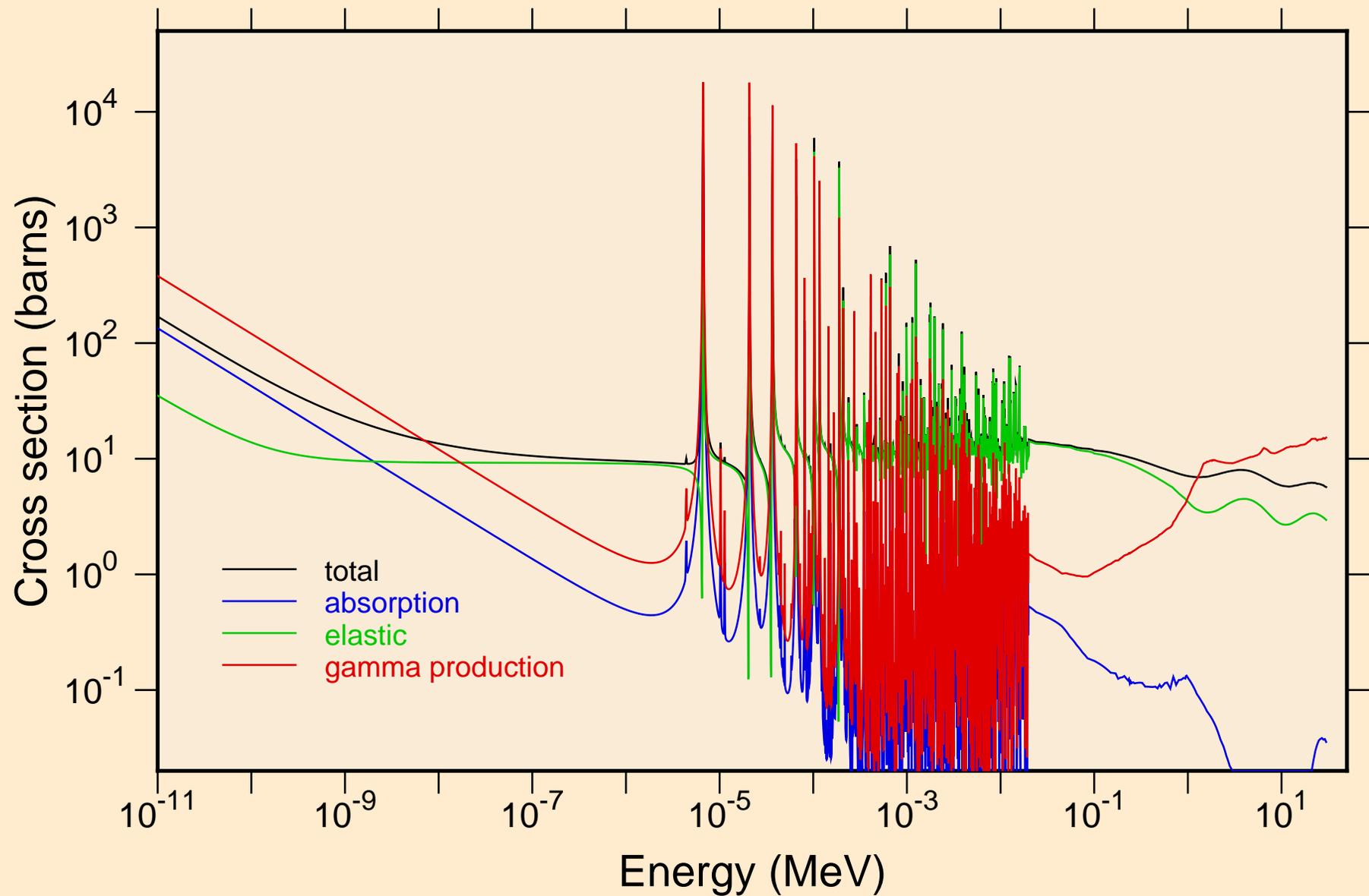


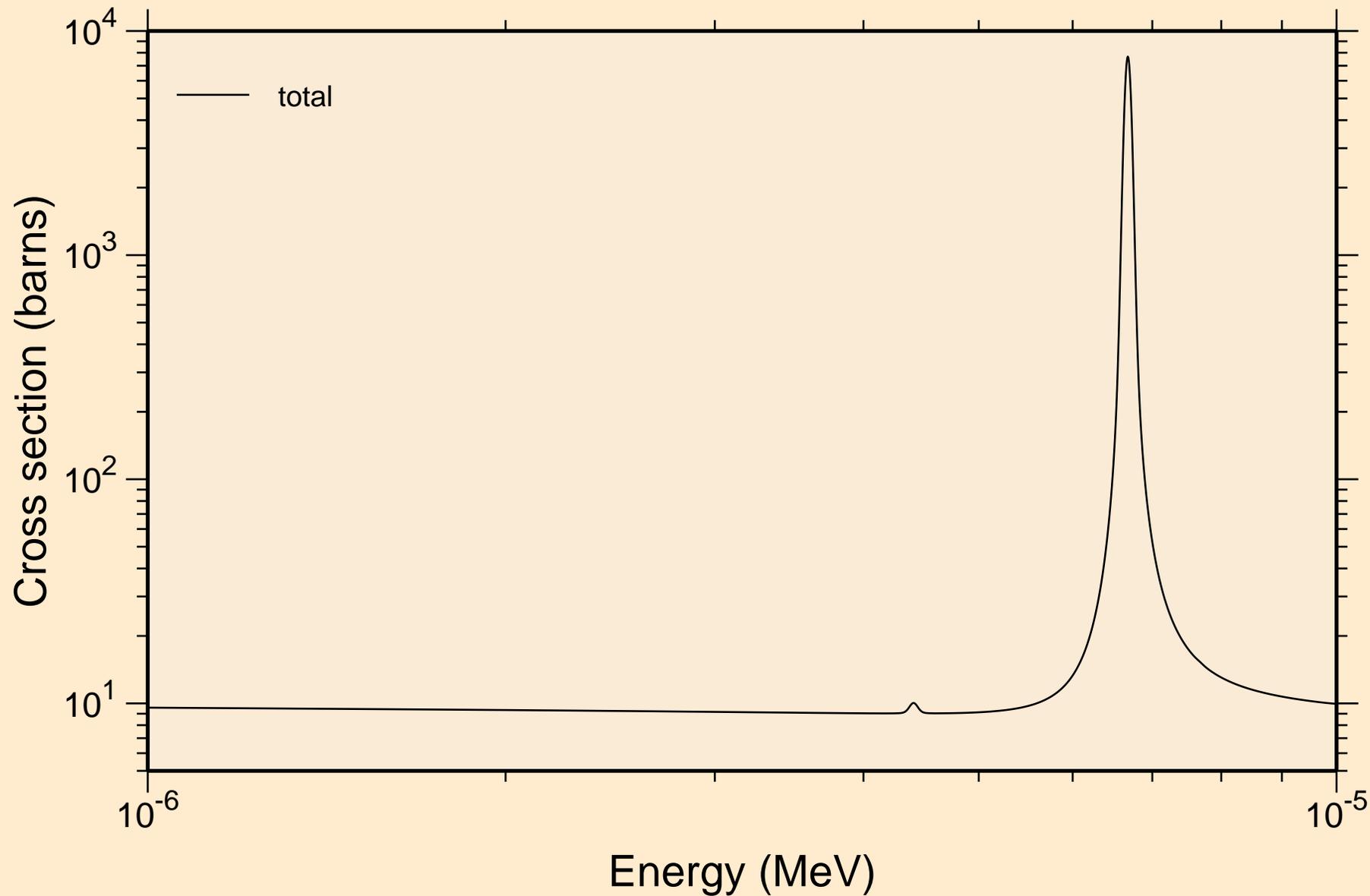
ADVANCE CALCULATIONS

Principal cross sections



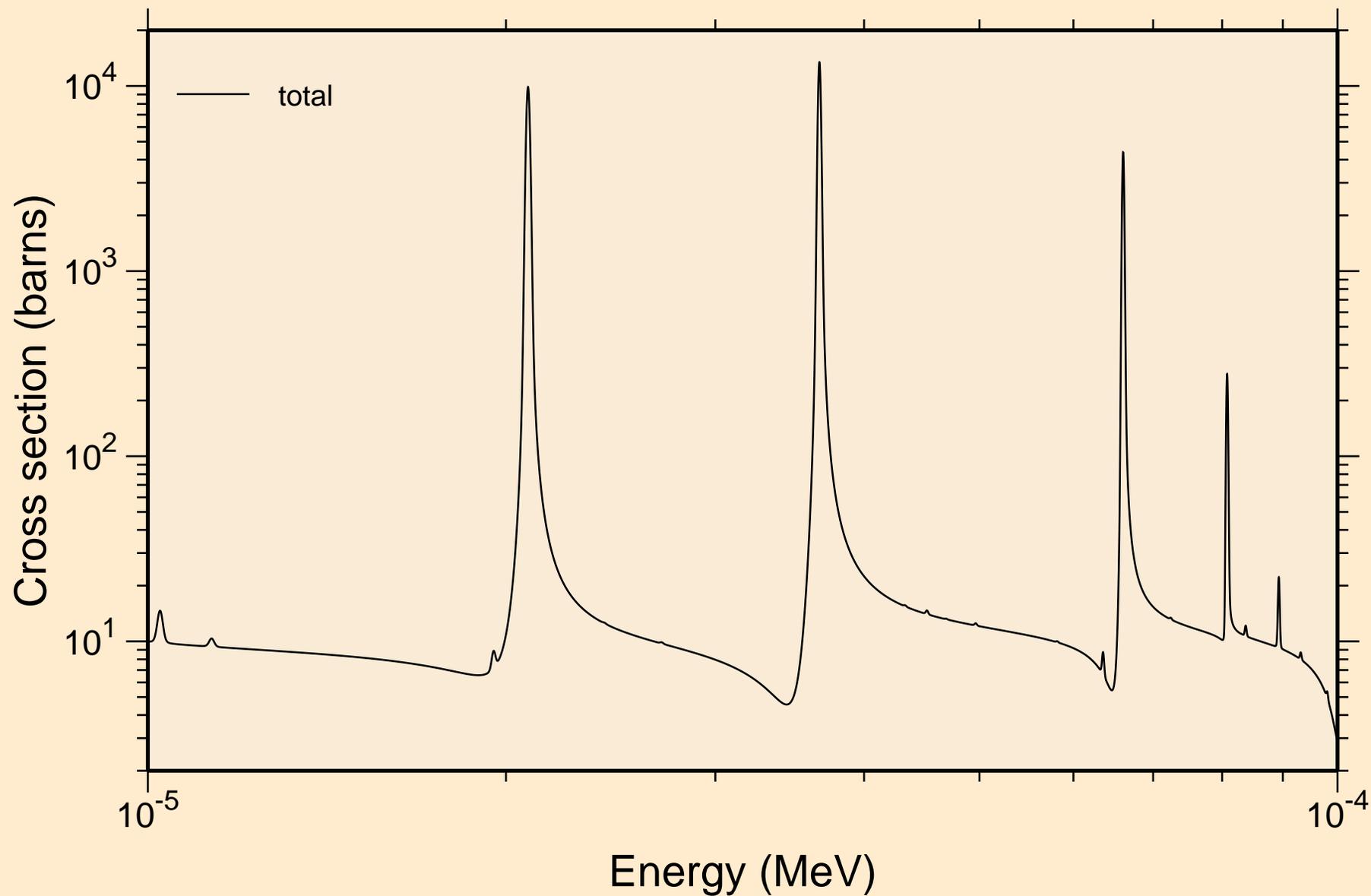
ADVANCE CALCULATIONS

resonance total cross section



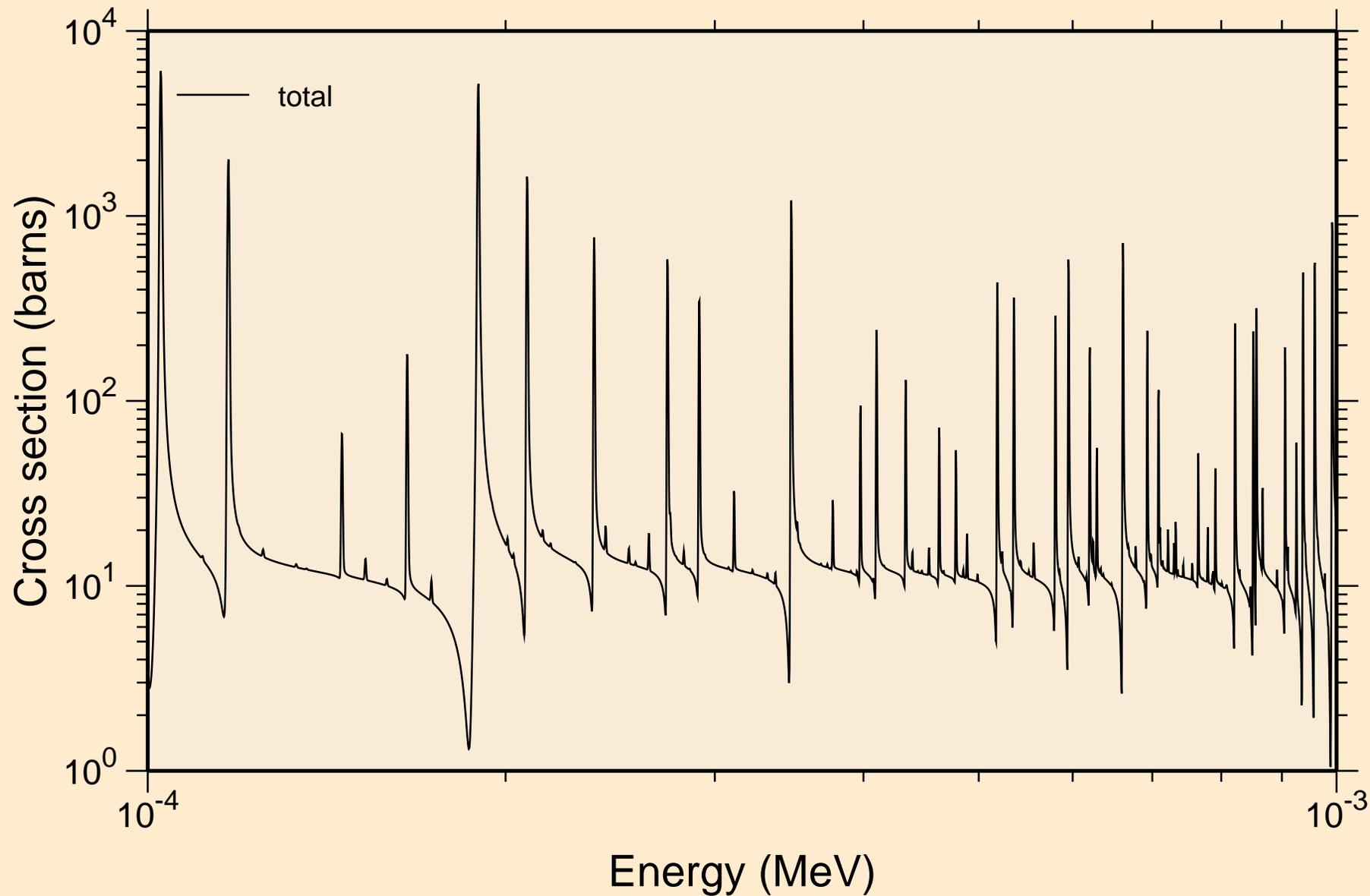
ADVANCE CALCULATIONS

resonance total cross section



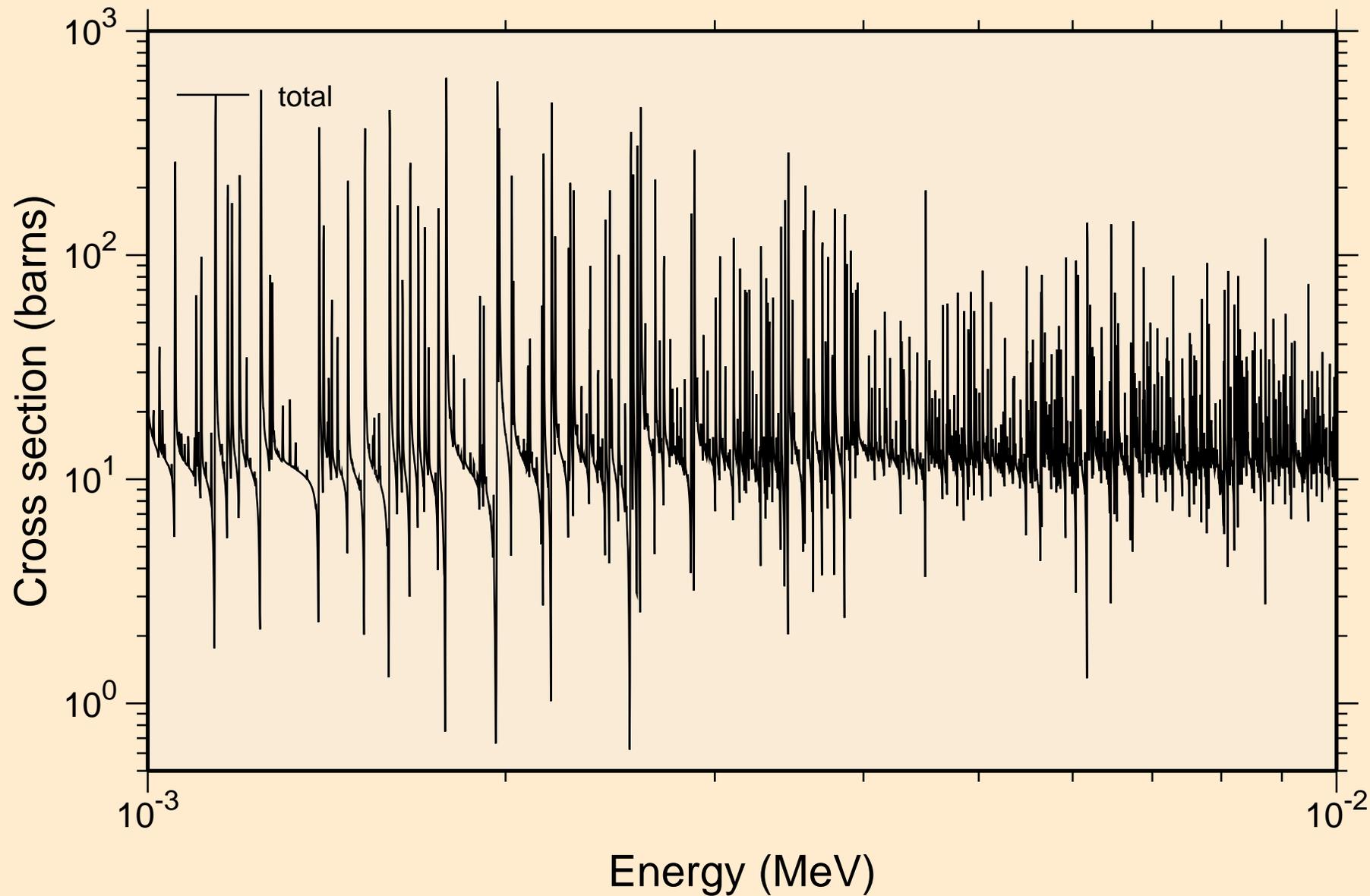
ADVANCE CALCULATIONS

resonance total cross section



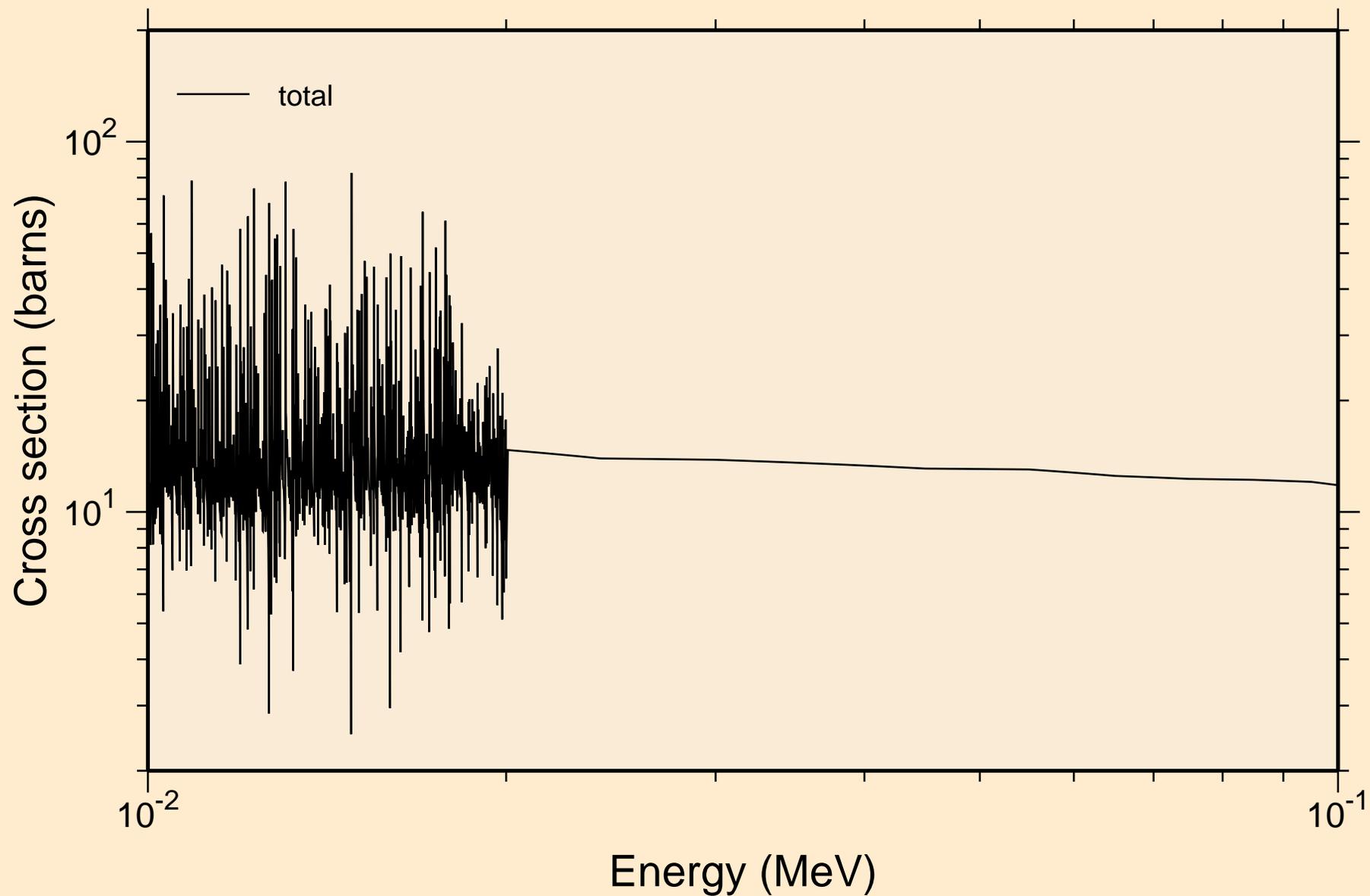
ADVANCE CALCULATIONS

resonance total cross section



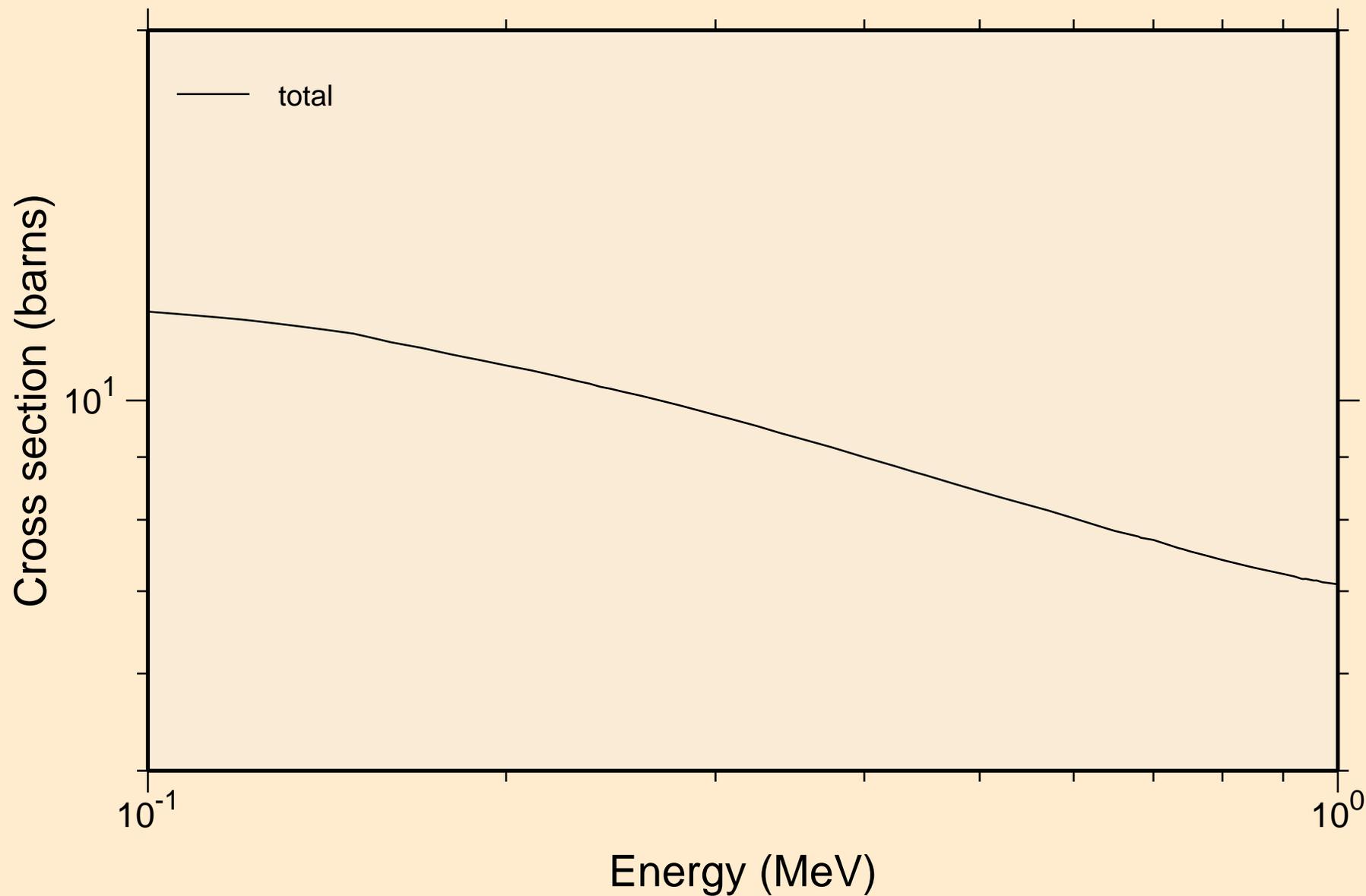
ADVANCE CALCULATIONS

resonance total cross section



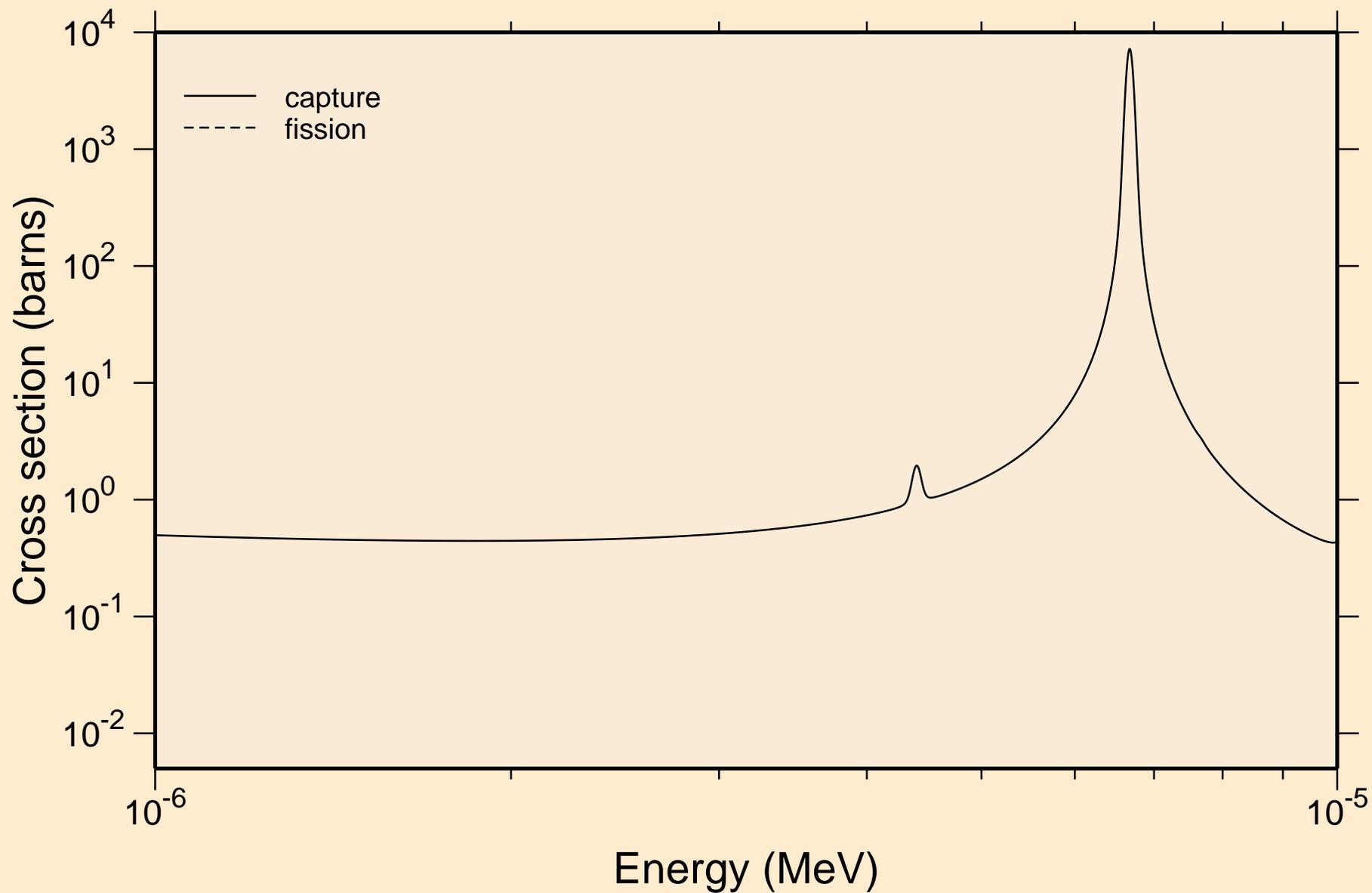
ADVANCE CALCULATIONS

resonance total cross section



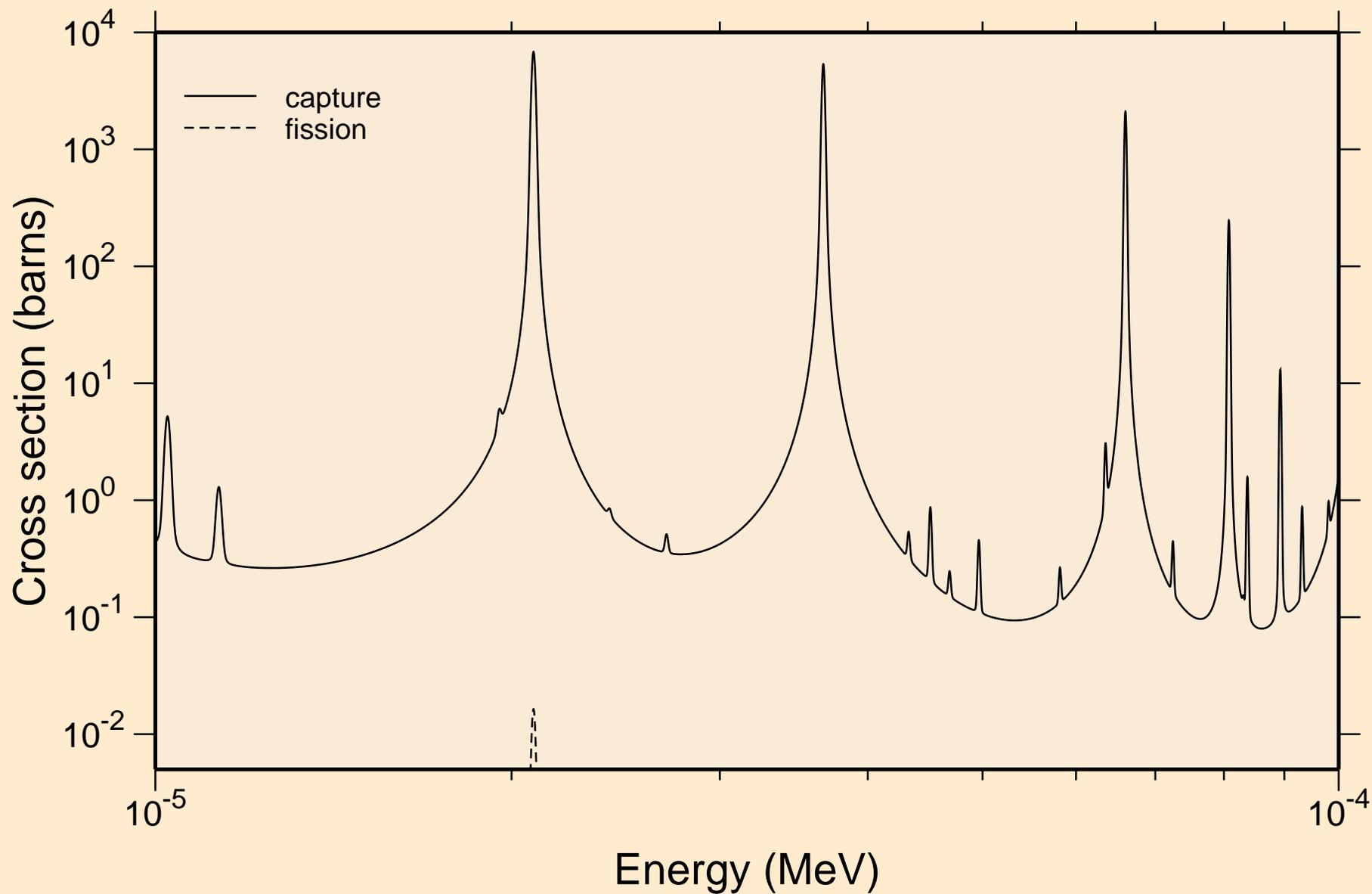
ADVANCE CALCULATIONS

resonance absorption cross sections



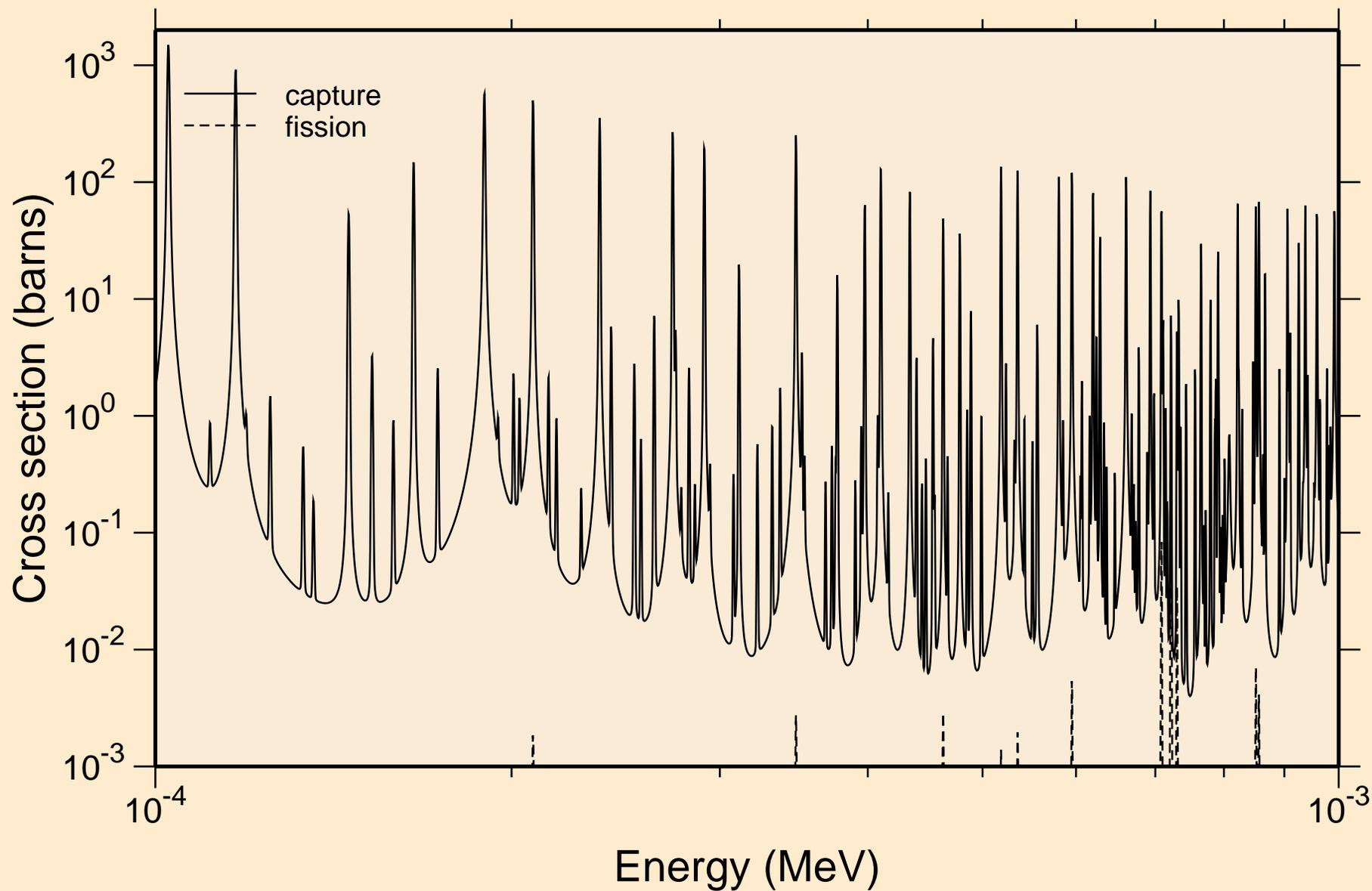
ADVANCE CALCULATIONS

resonance absorption cross sections



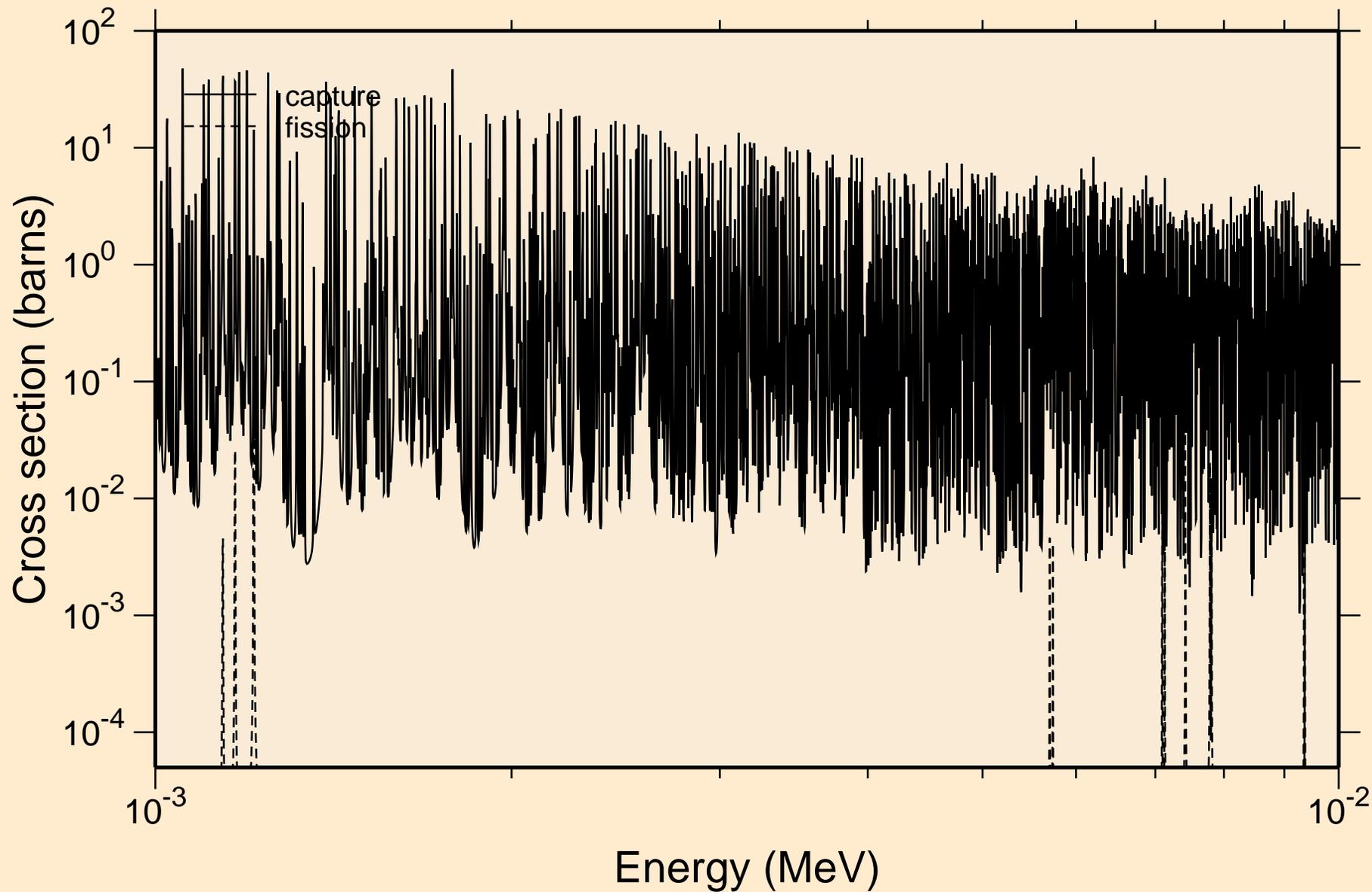
ADVANCE CALCULATIONS

resonance absorption cross sections



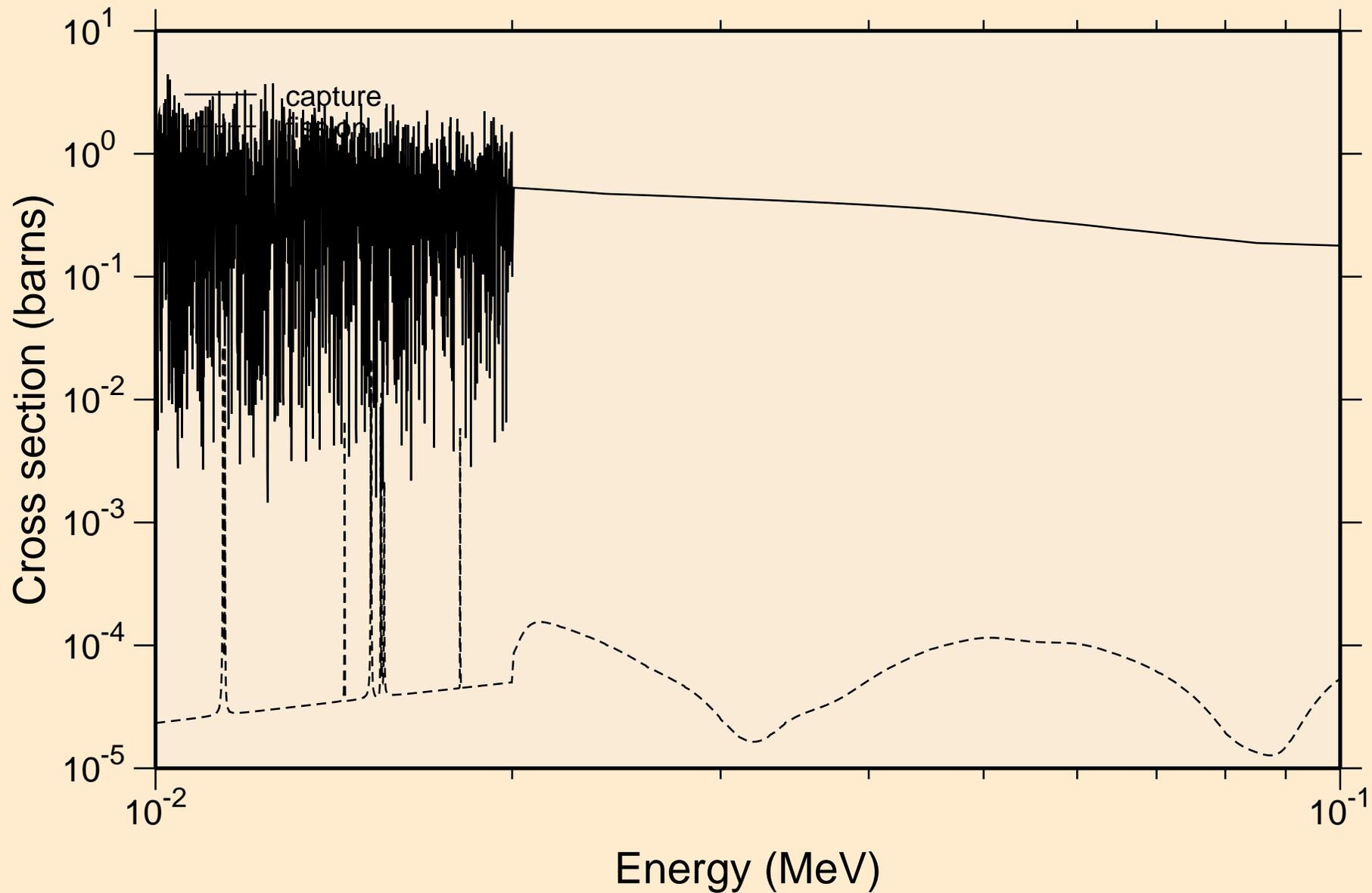
ADVANCE CALCULATIONS

resonance absorption cross sections



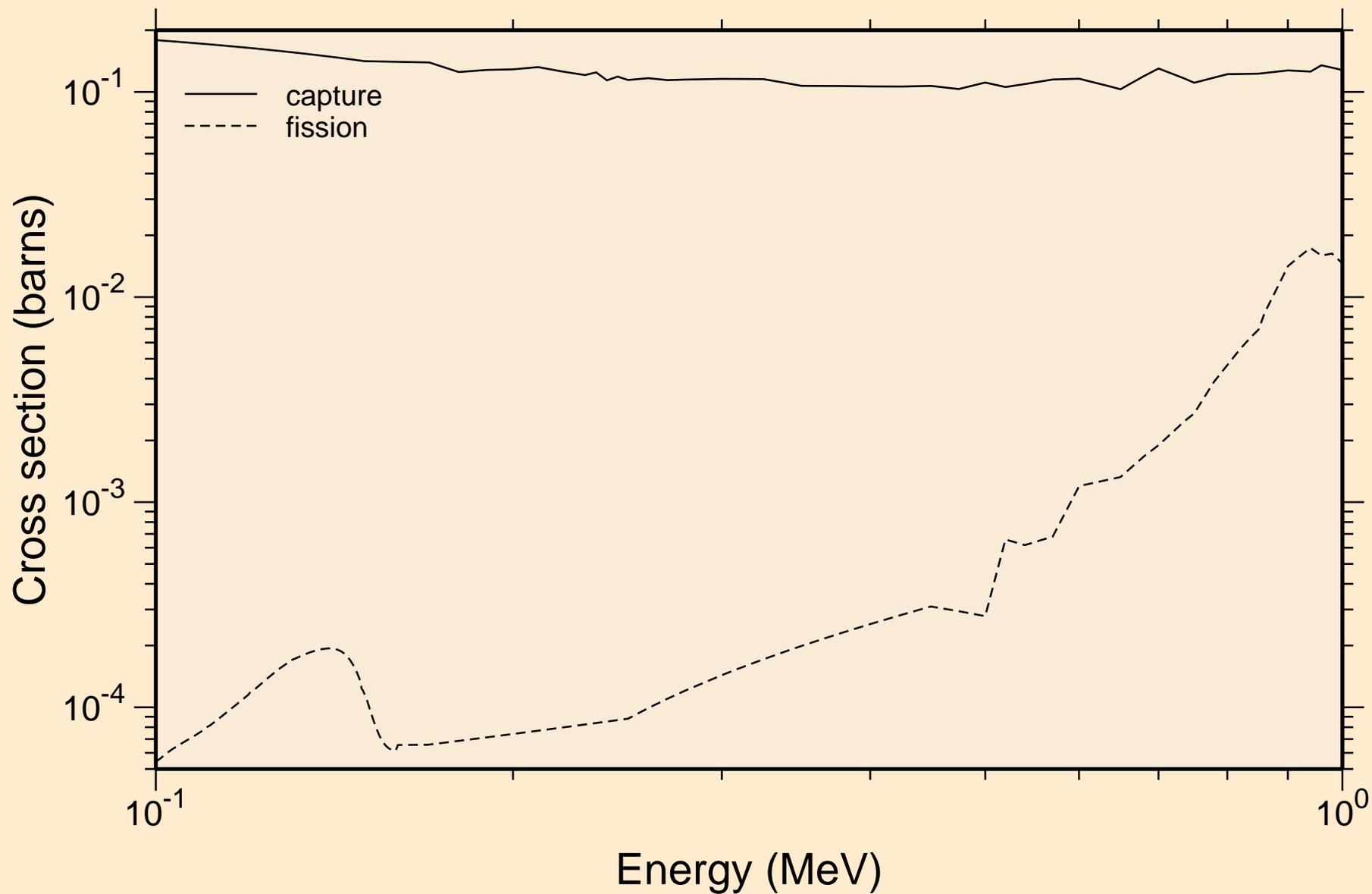
ADVANCE CALCULATIONS

resonance absorption cross sections



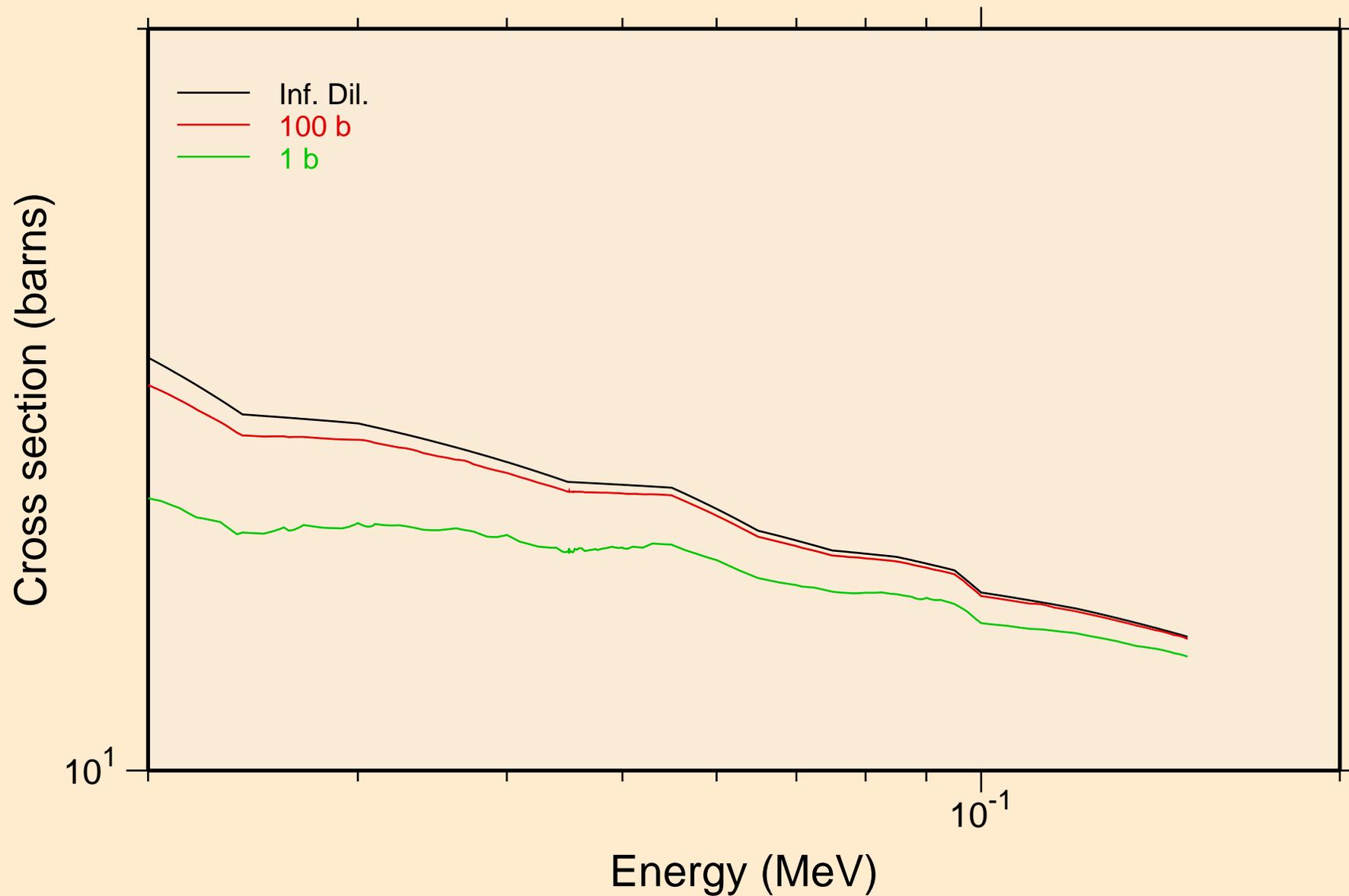
ADVANCE CALCULATIONS

resonance absorption cross sections



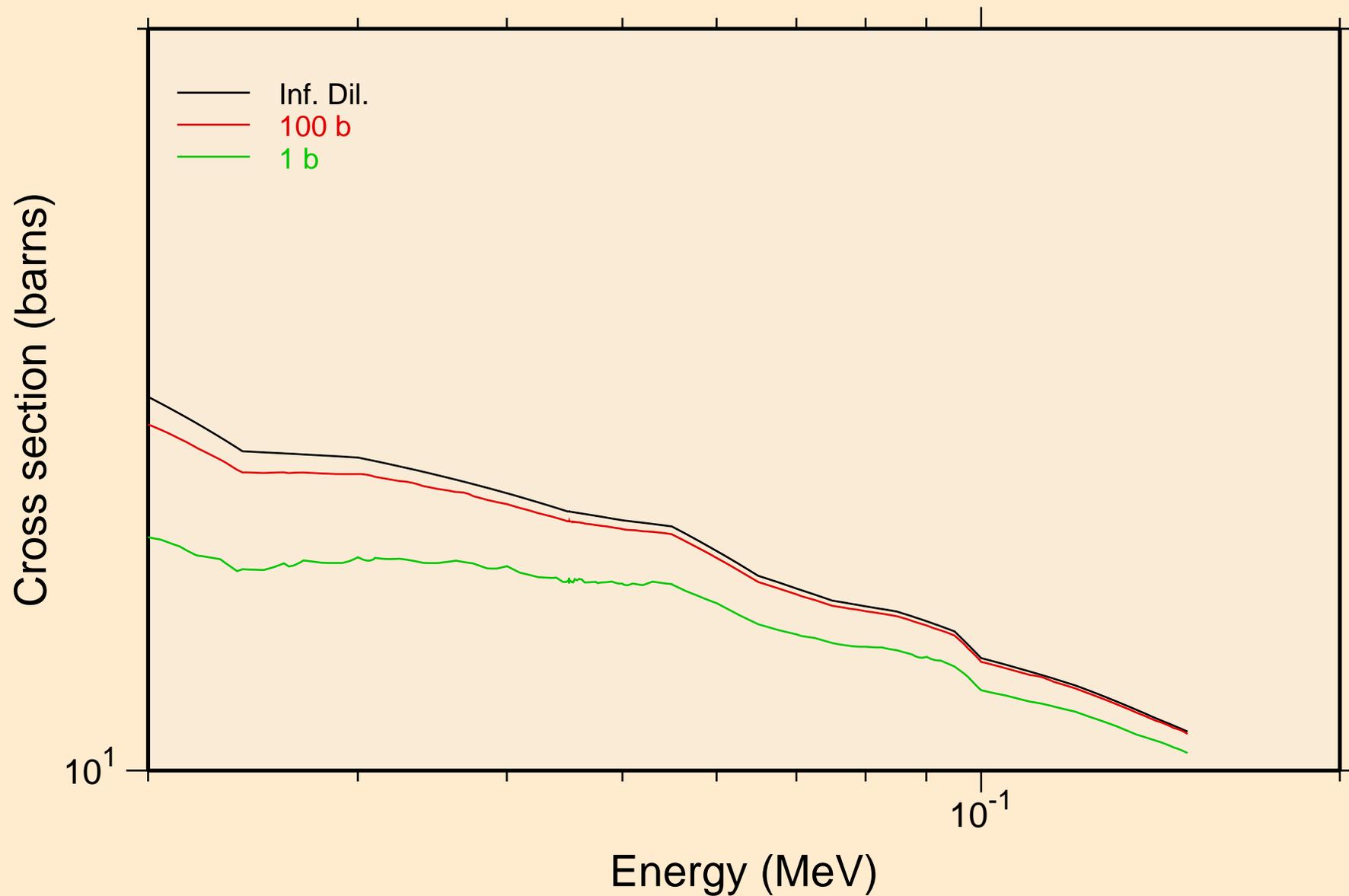
ADVANCE CALCULATIONS

UR total cross section



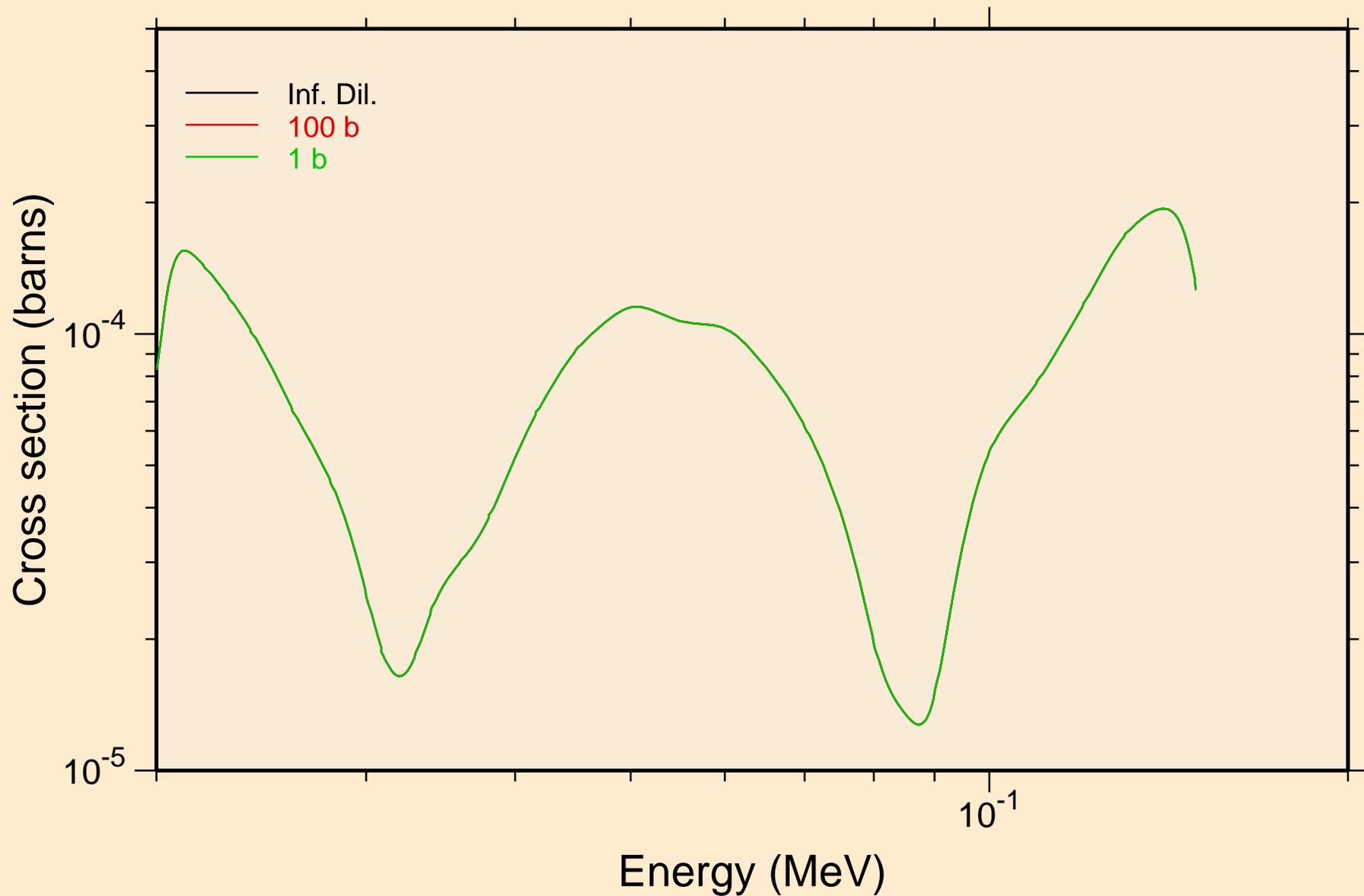
ADVANCE CALCULATIONS

UR elastic cross section



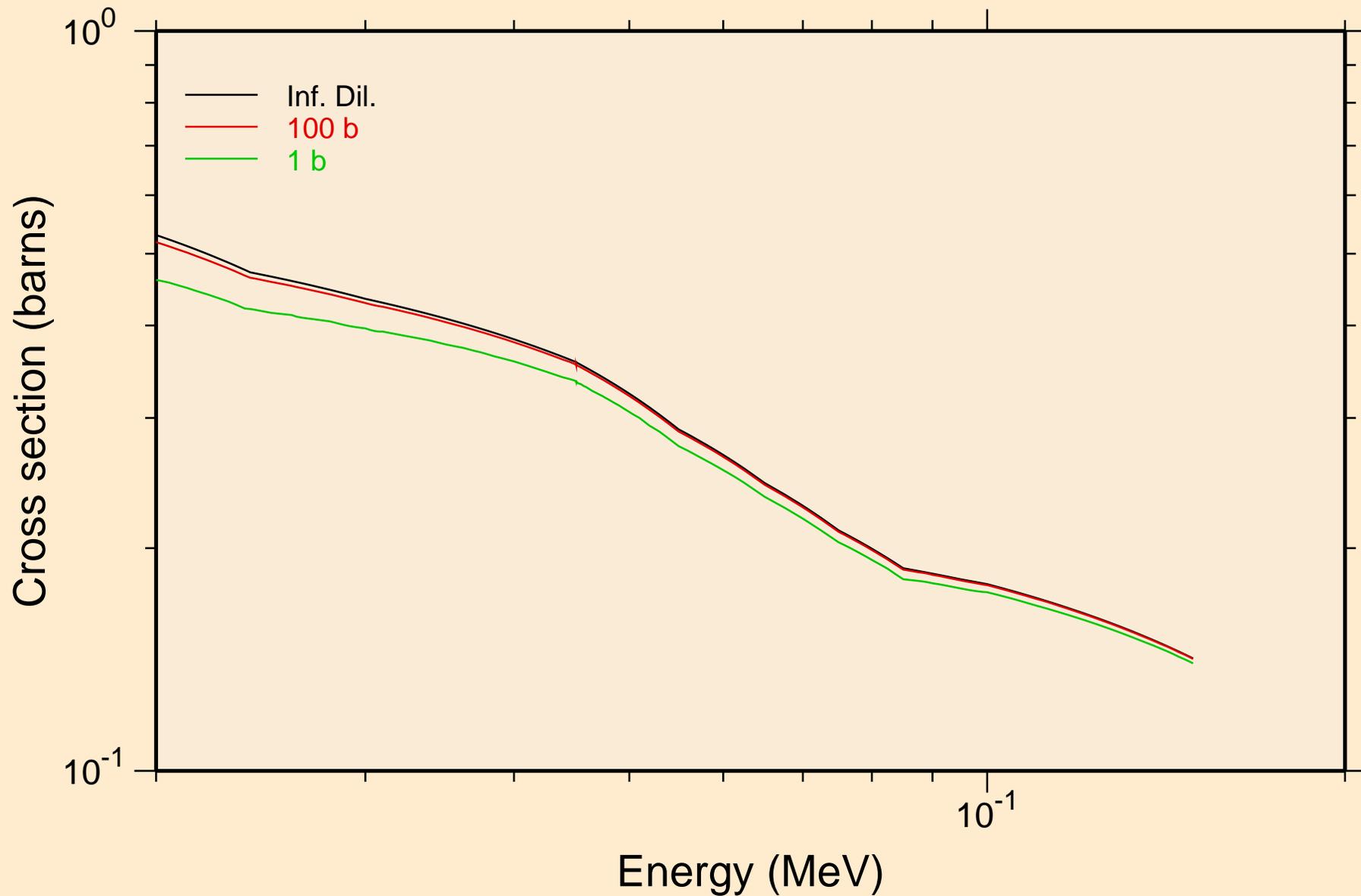
ADVANCE CALCULATIONS

UR fission cross section



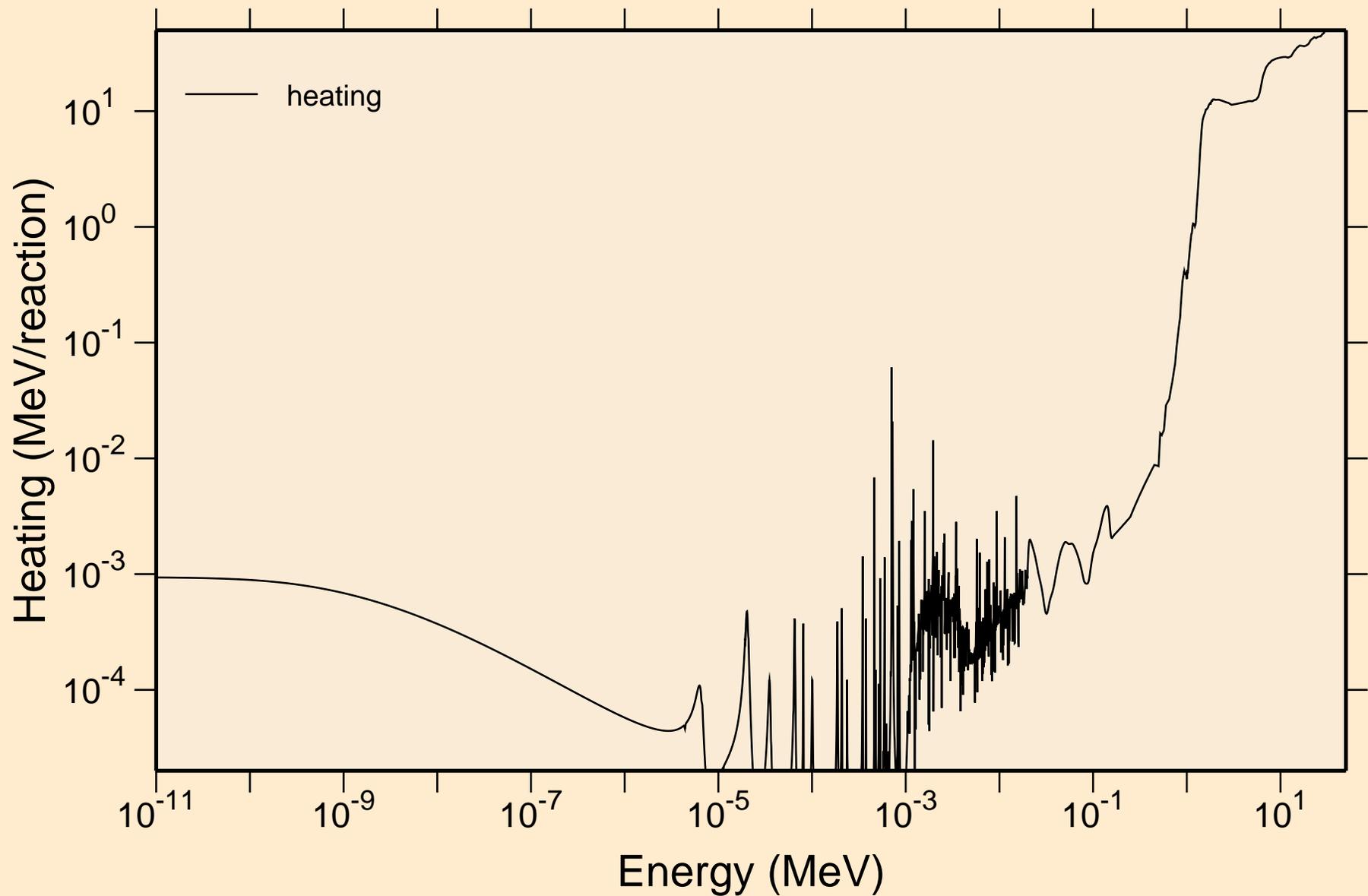
ADVANCE CALCULATIONS

UR capture cross section



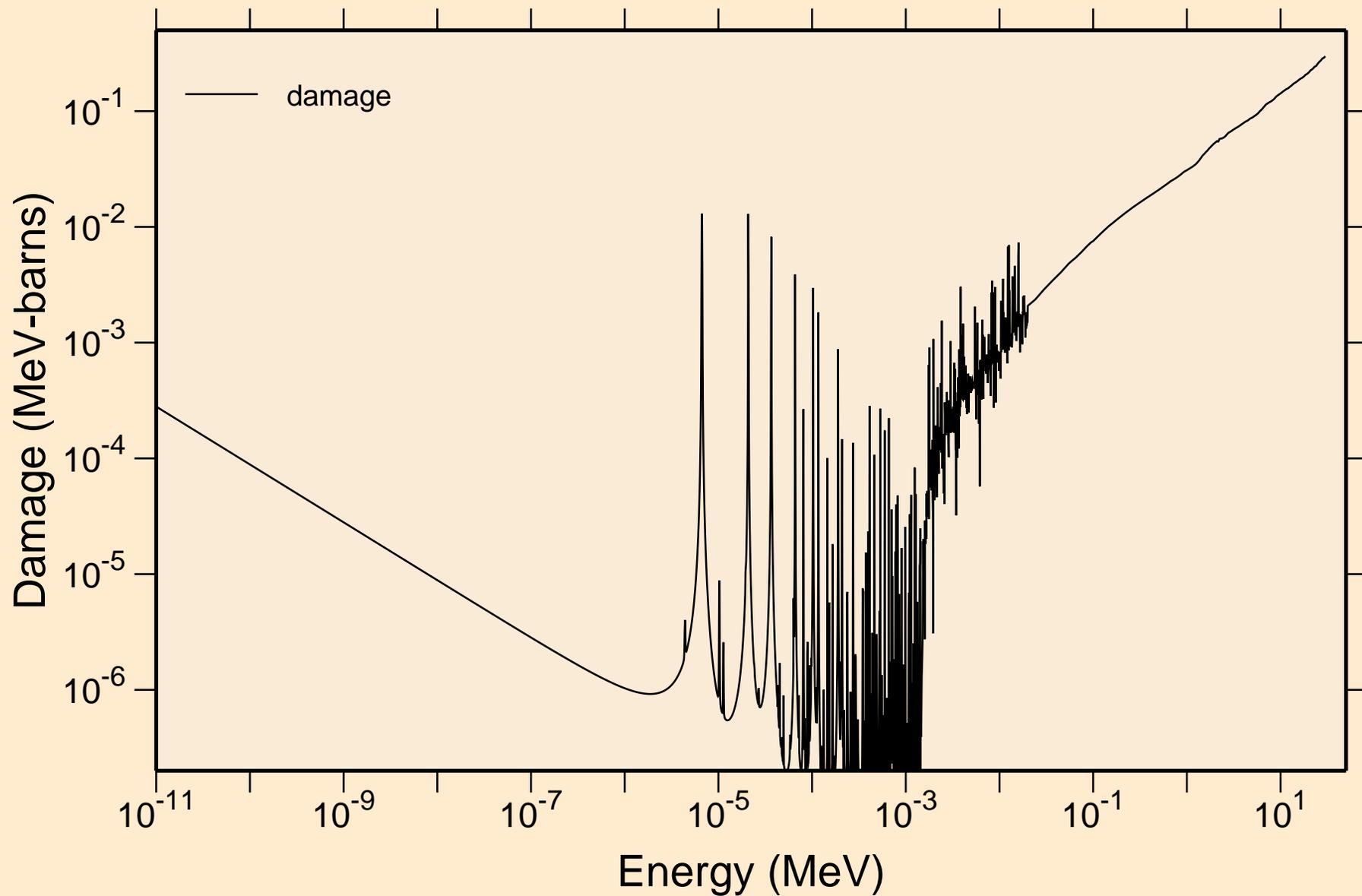
ADVANCE CALCULATIONS

Heating



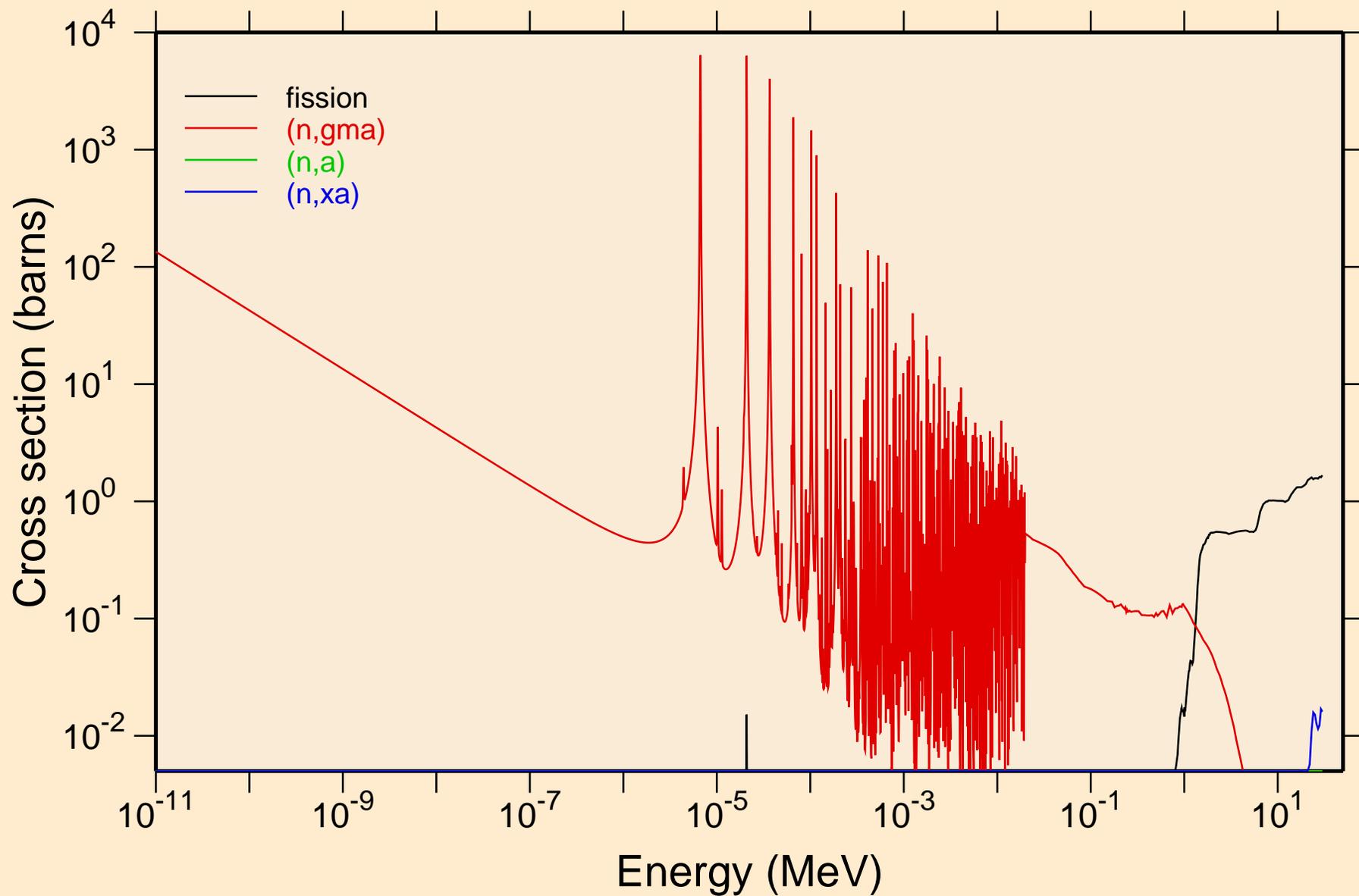
ADVANCE CALCULATIONS

Damage



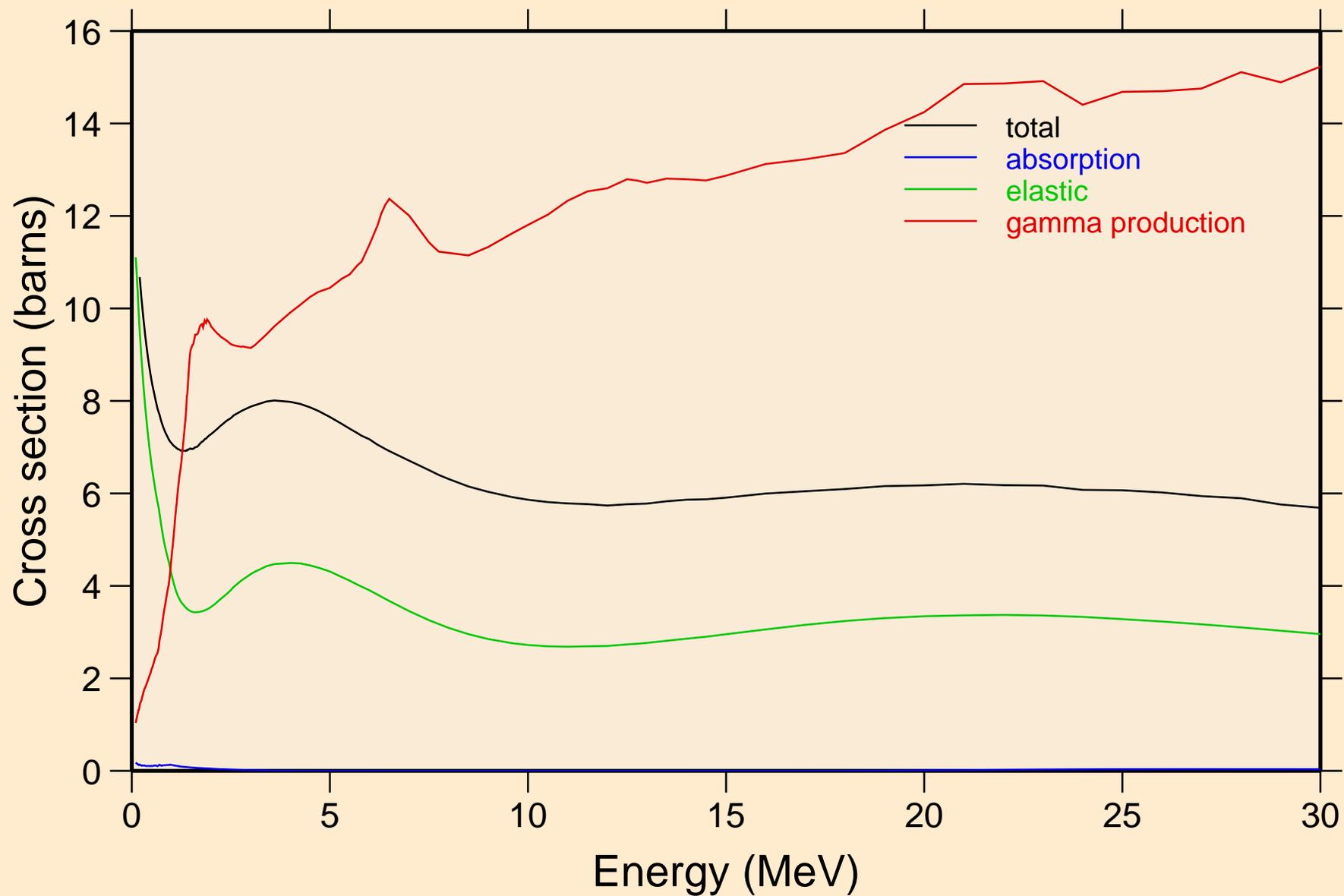
ADVANCE CALCULATIONS

Non-threshold reactions



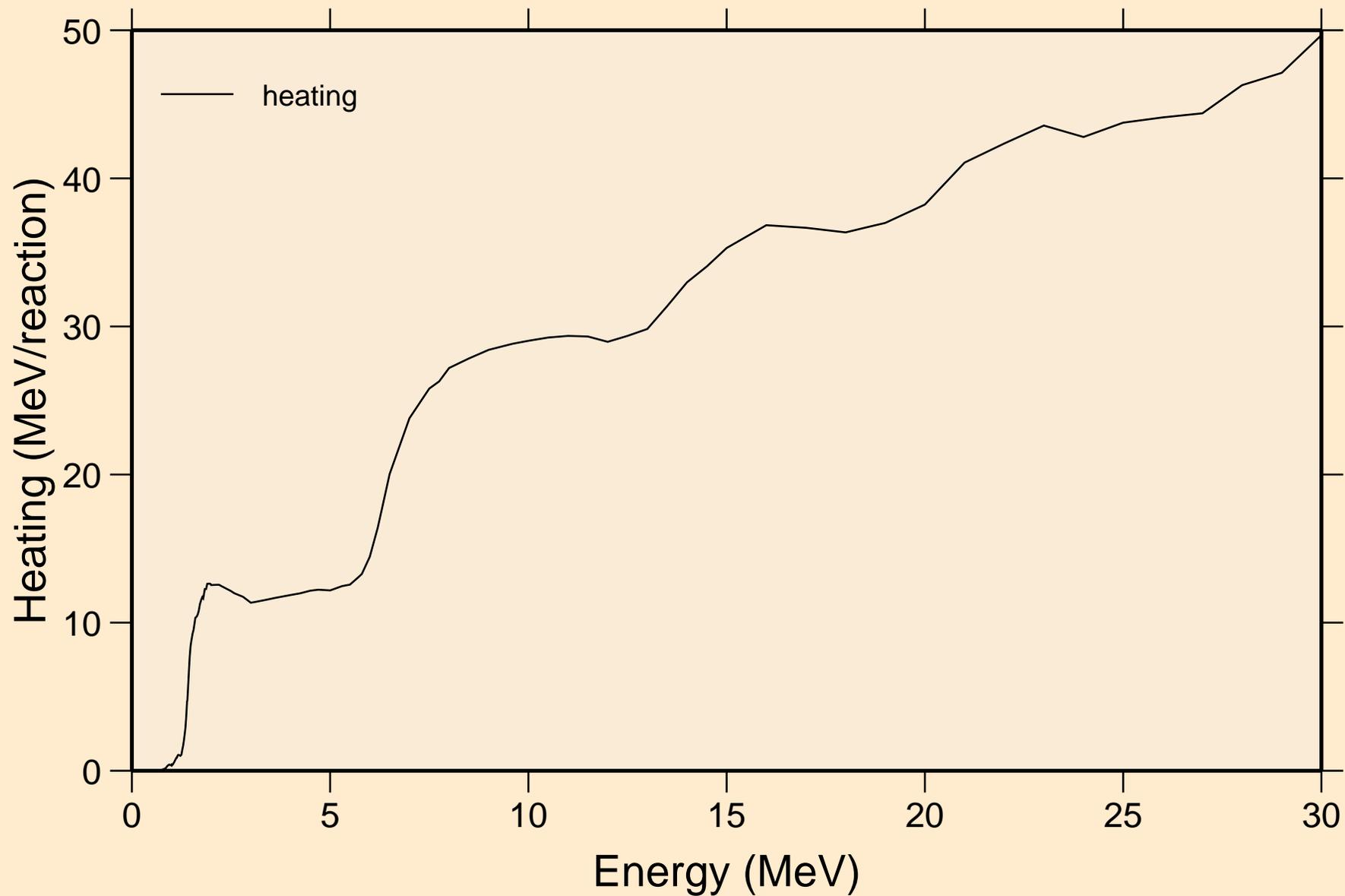
ADVANCE CALCULATIONS

Principal cross sections



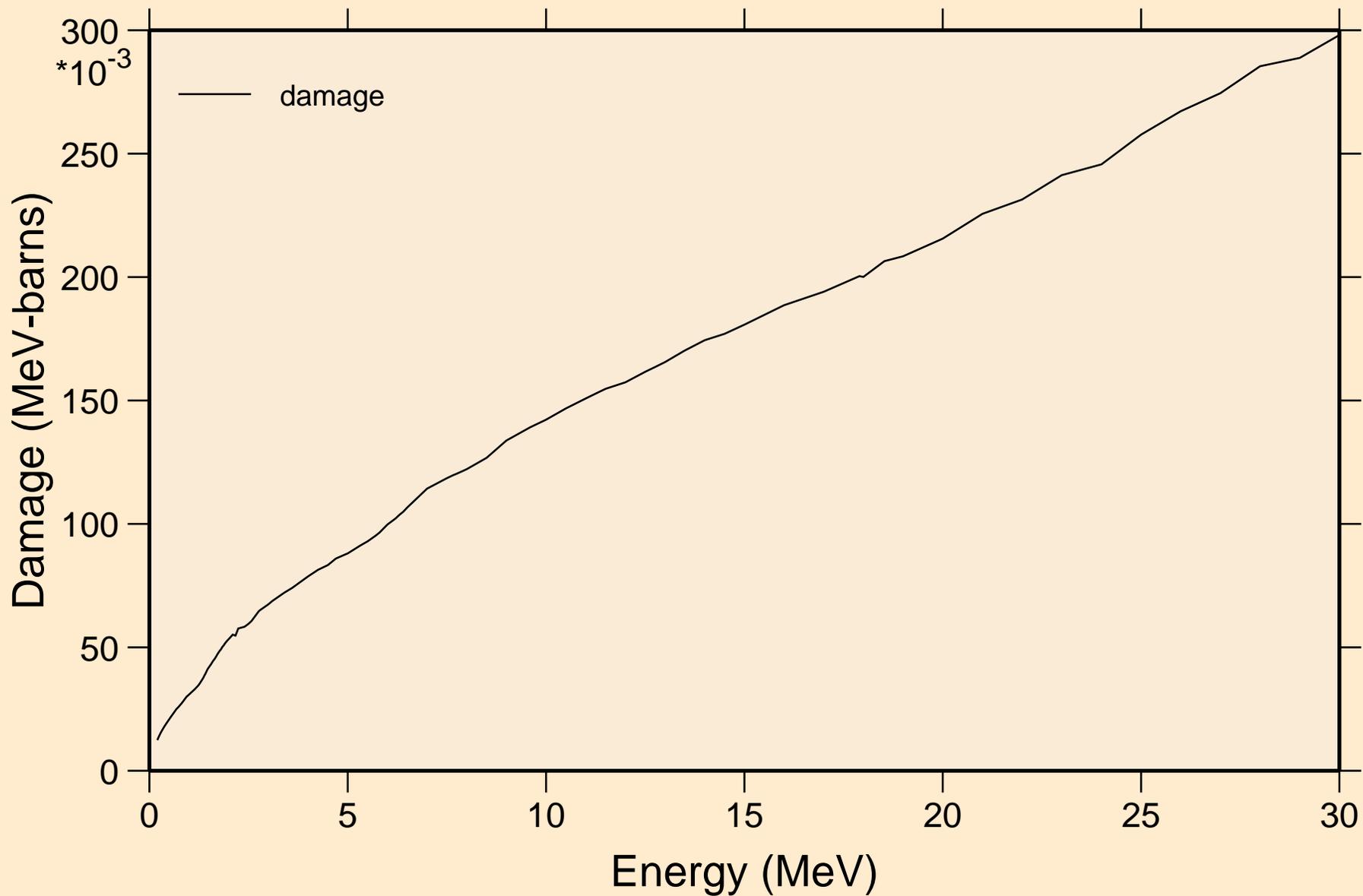
ADVANCE CALCULATIONS

Heating



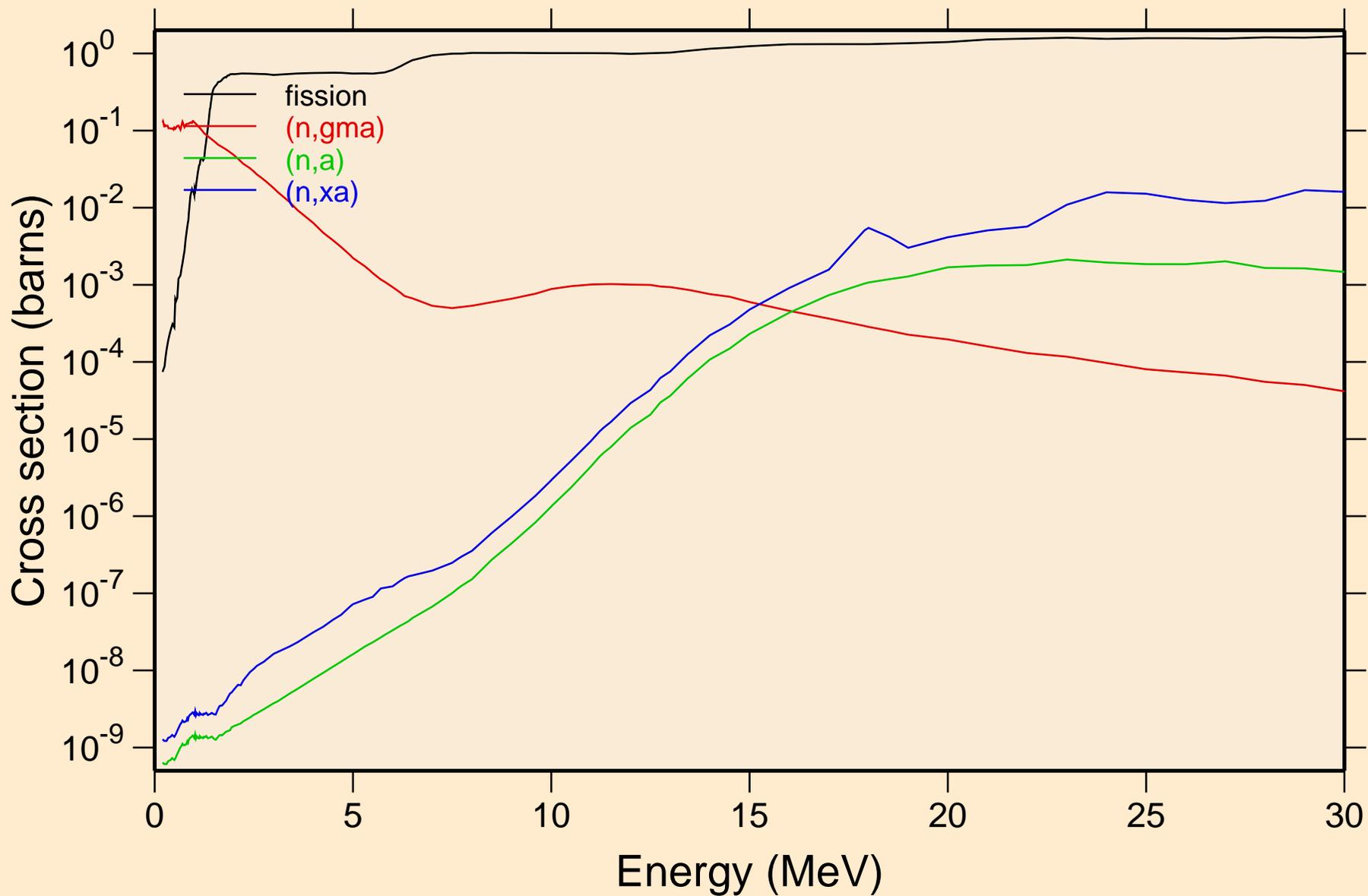
ADVANCE CALCULATIONS

Damage



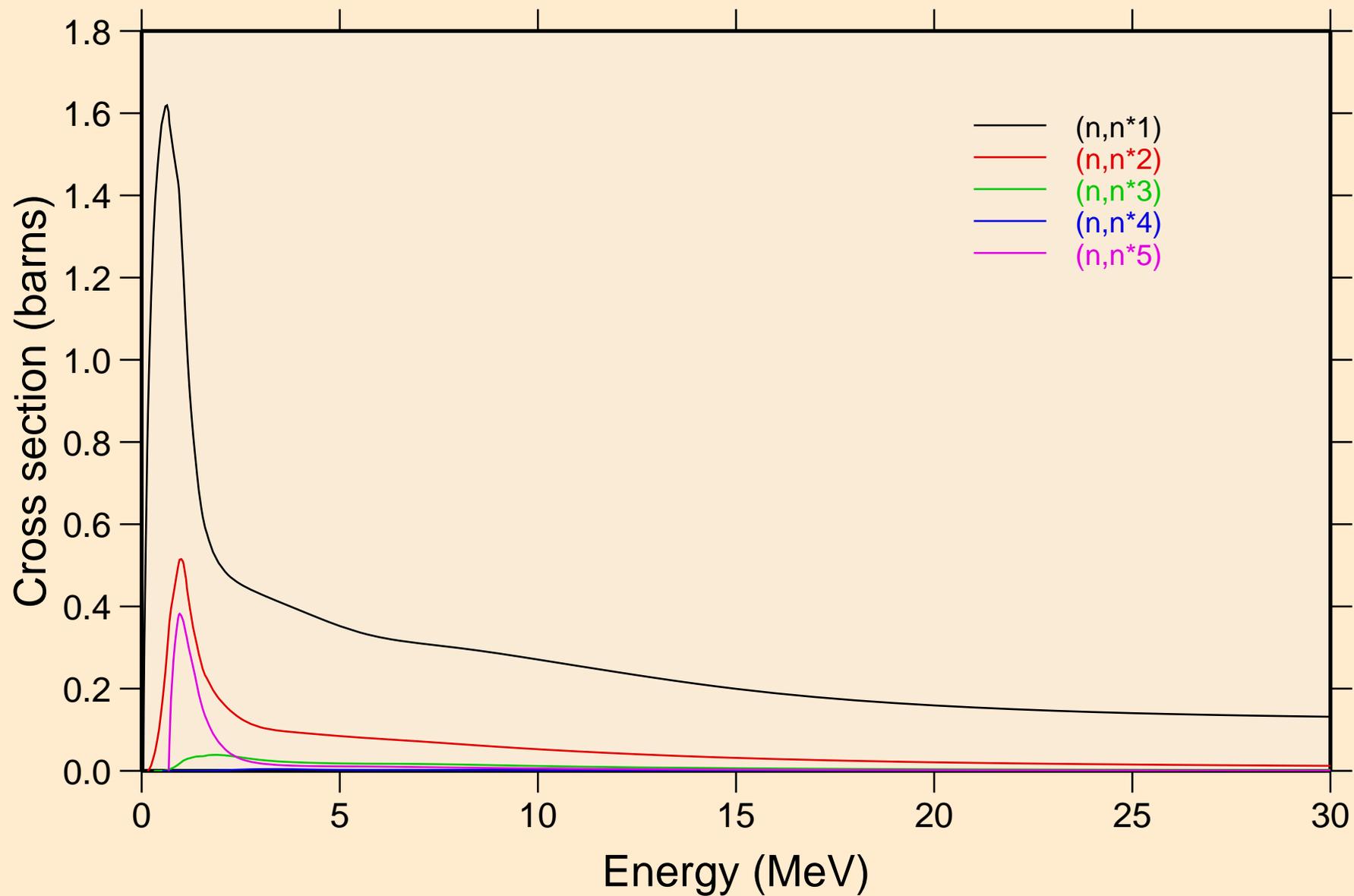
ADVANCE CALCULATIONS

Non-threshold reactions



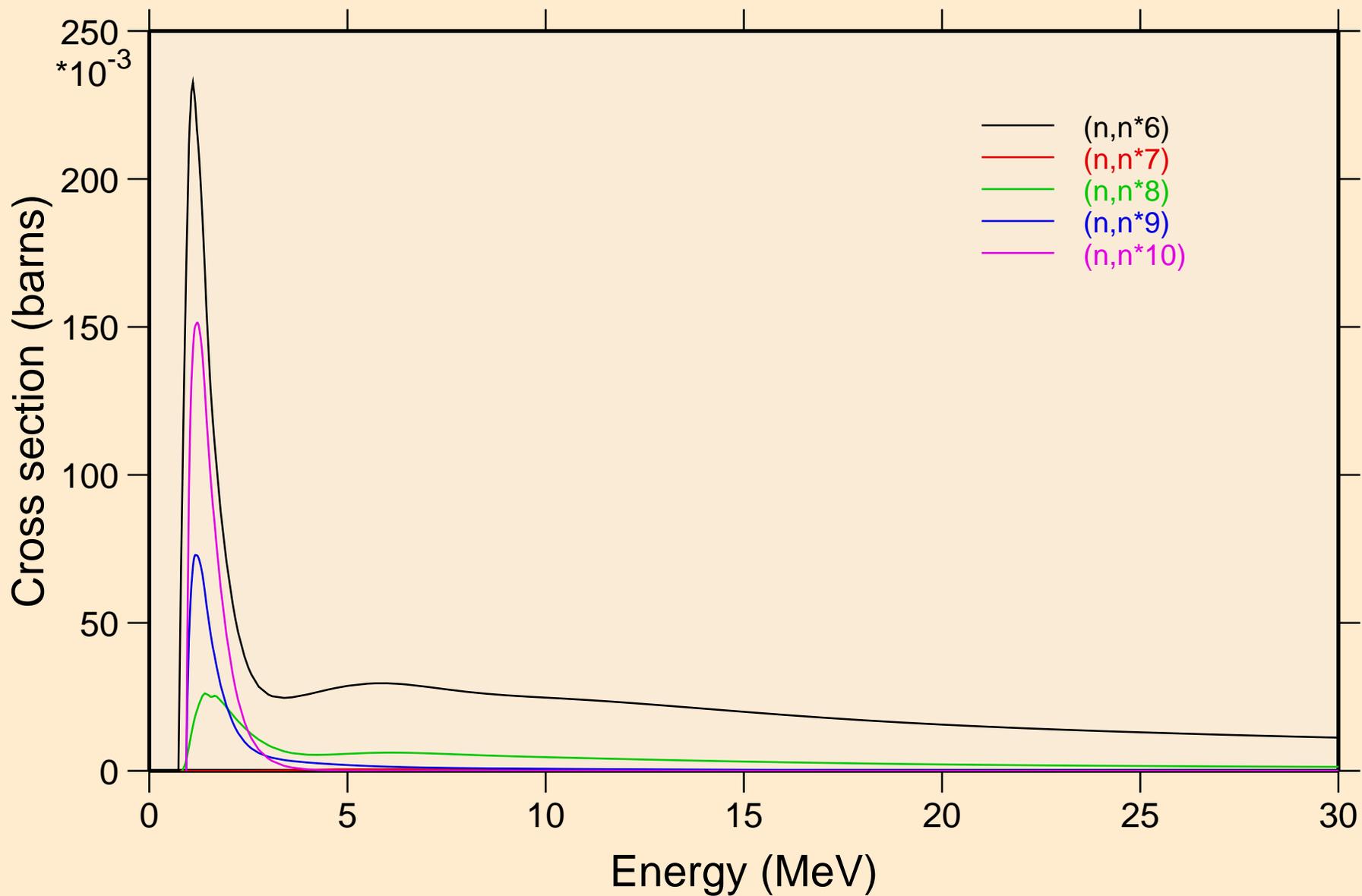
ADVANCE CALCULATIONS

Inelastic levels



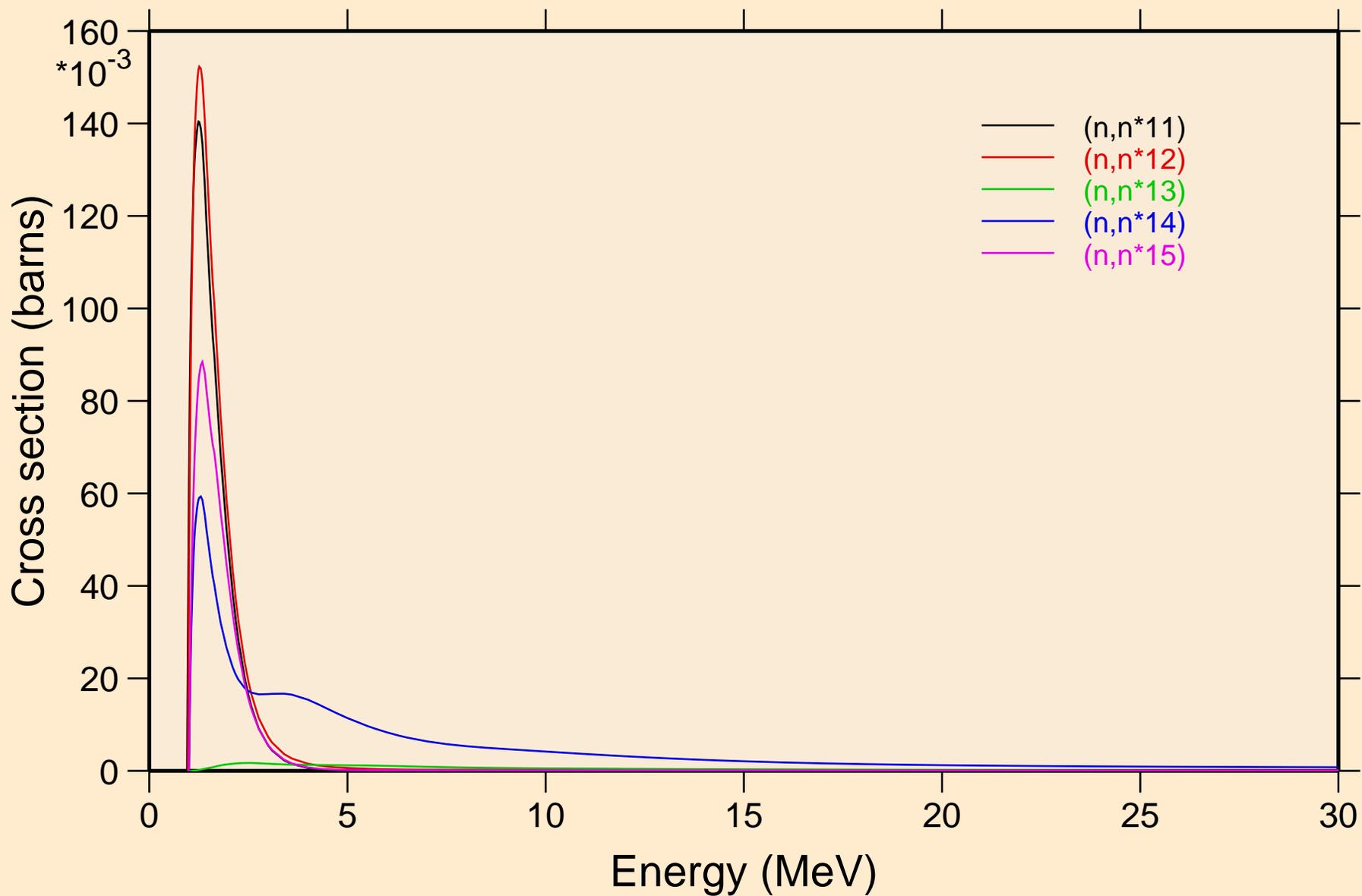
ADVANCE CALCULATIONS

Inelastic levels



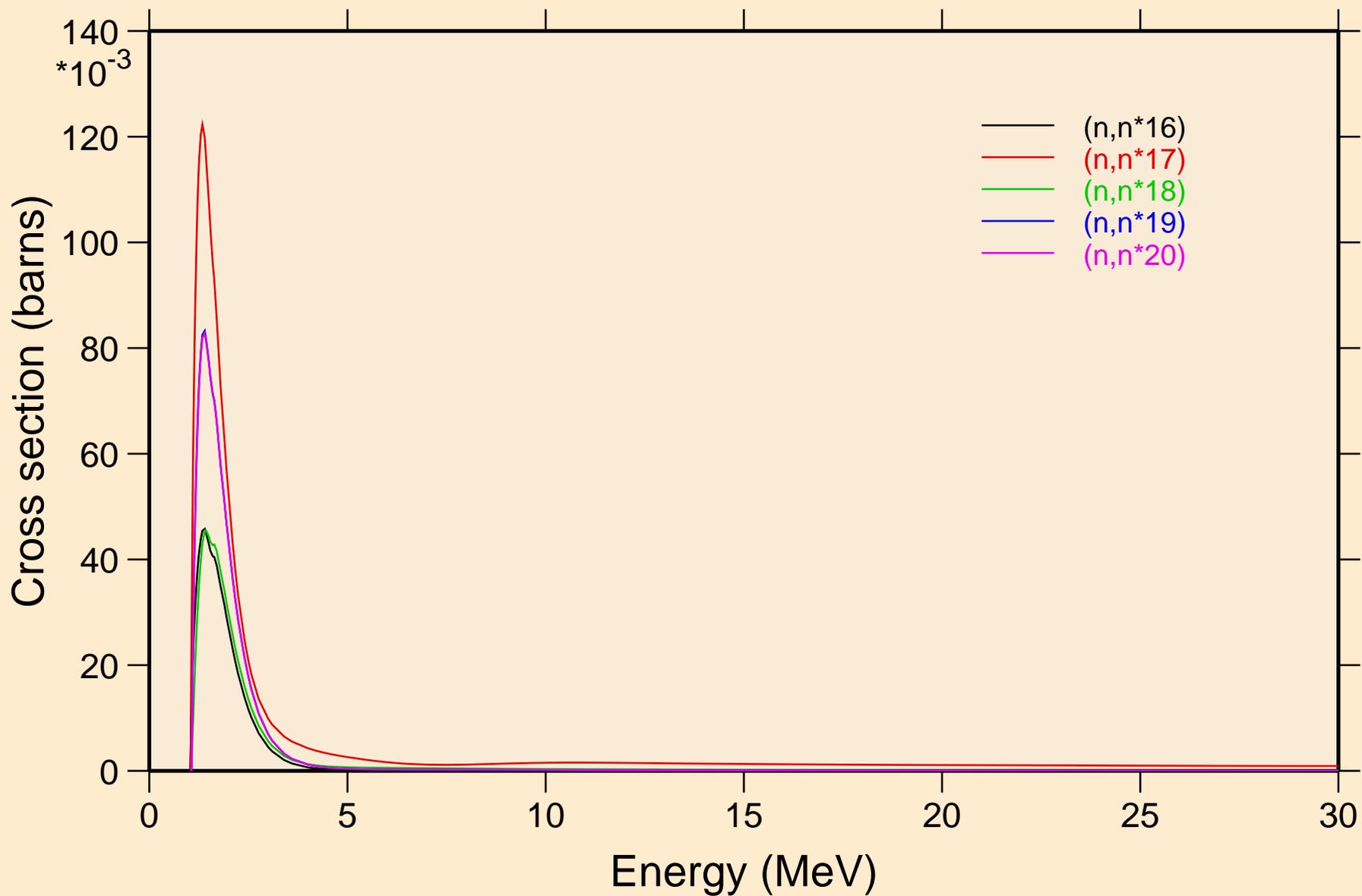
ADVANCE CALCULATIONS

Inelastic levels



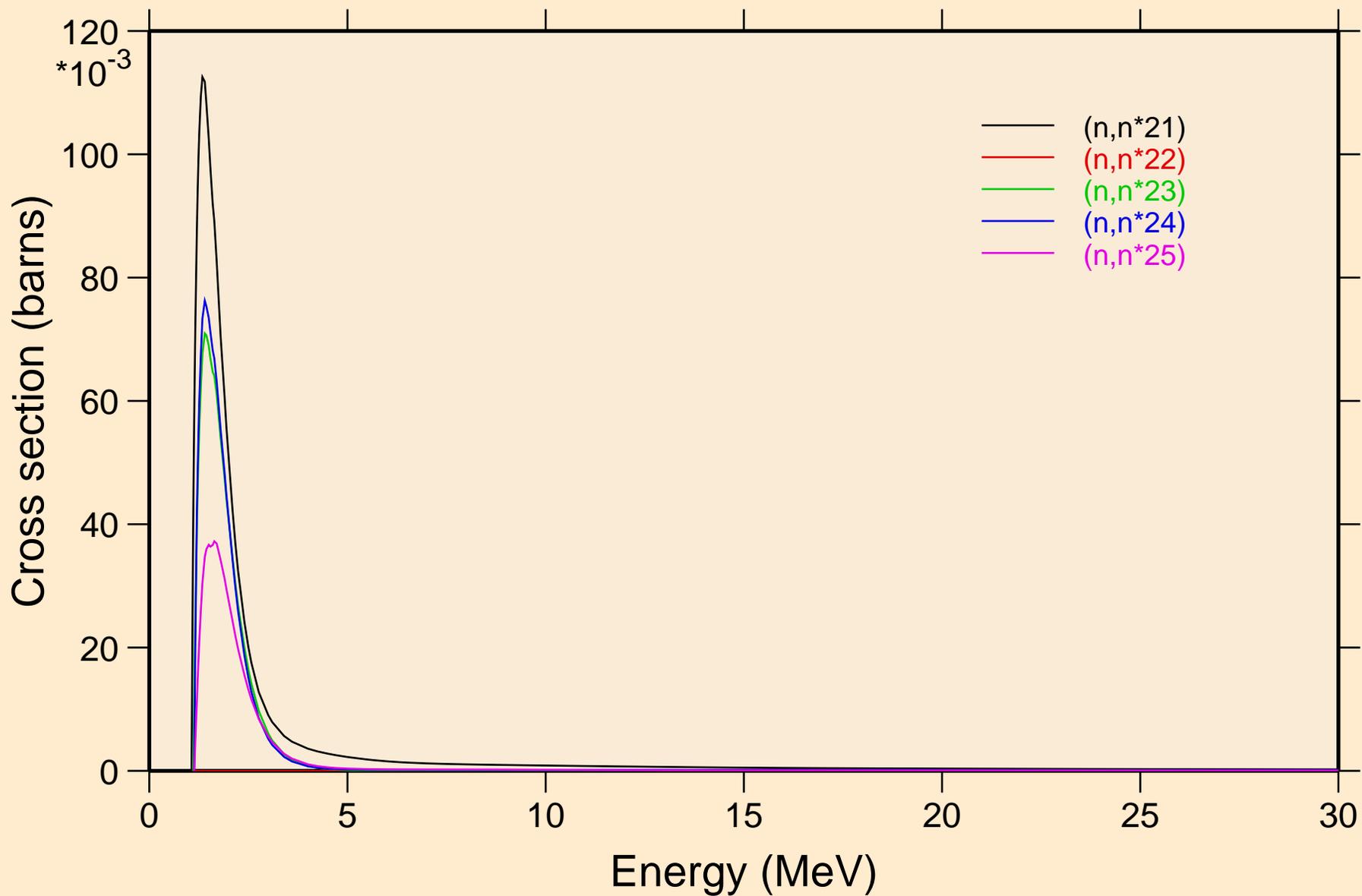
ADVANCE CALCULATIONS

Inelastic levels



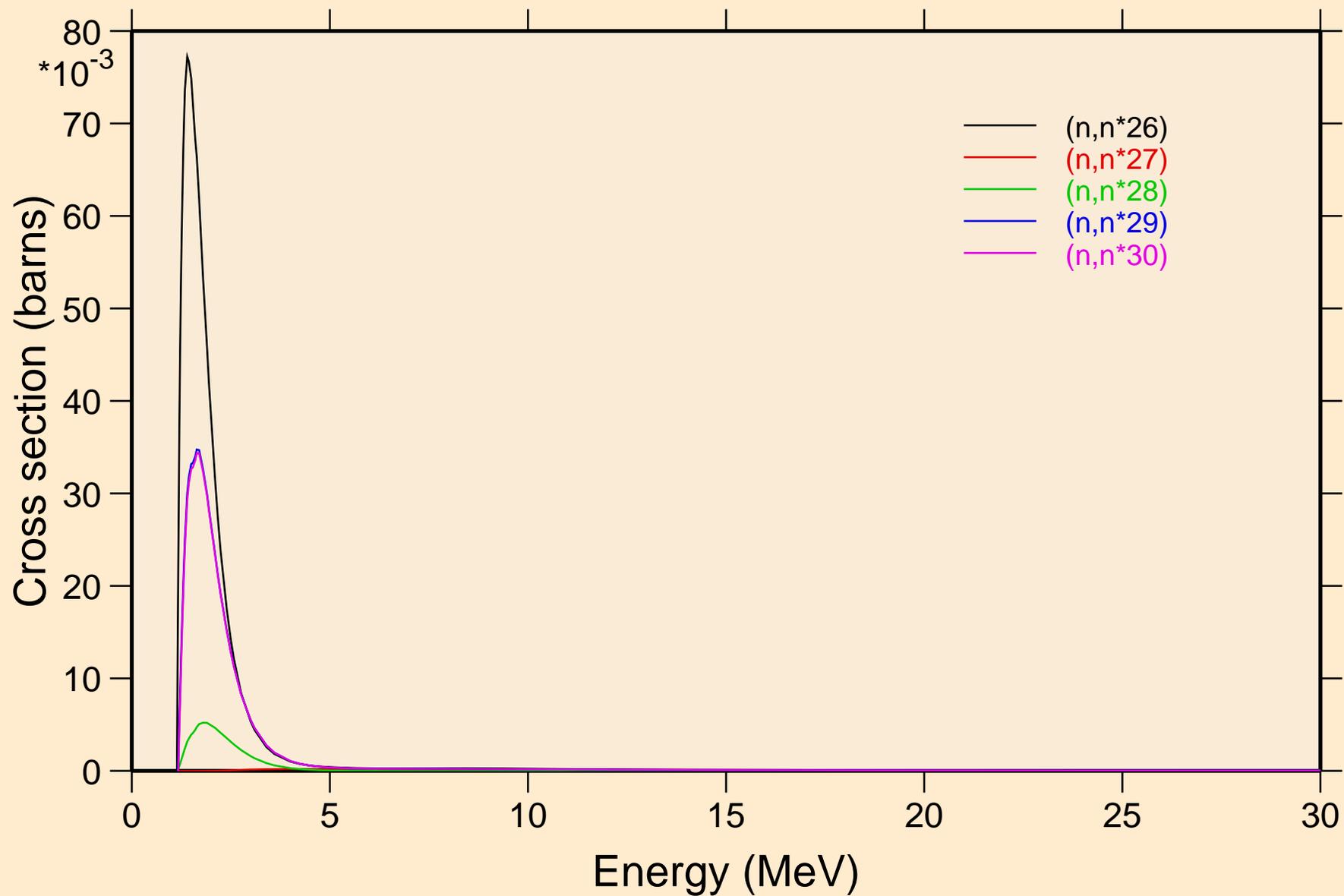
ADVANCE CALCULATIONS

Inelastic levels



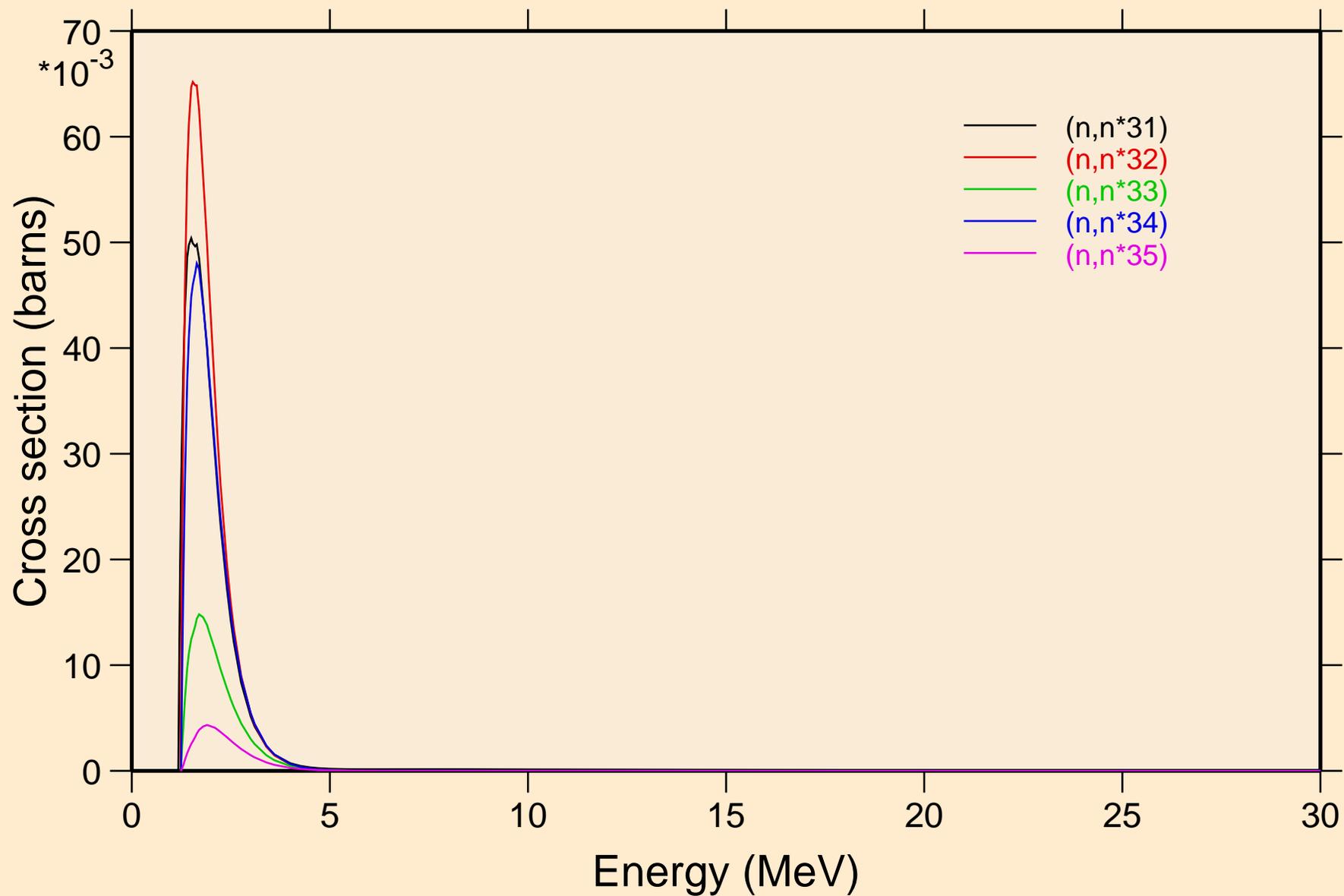
ADVANCE CALCULATIONS

Inelastic levels



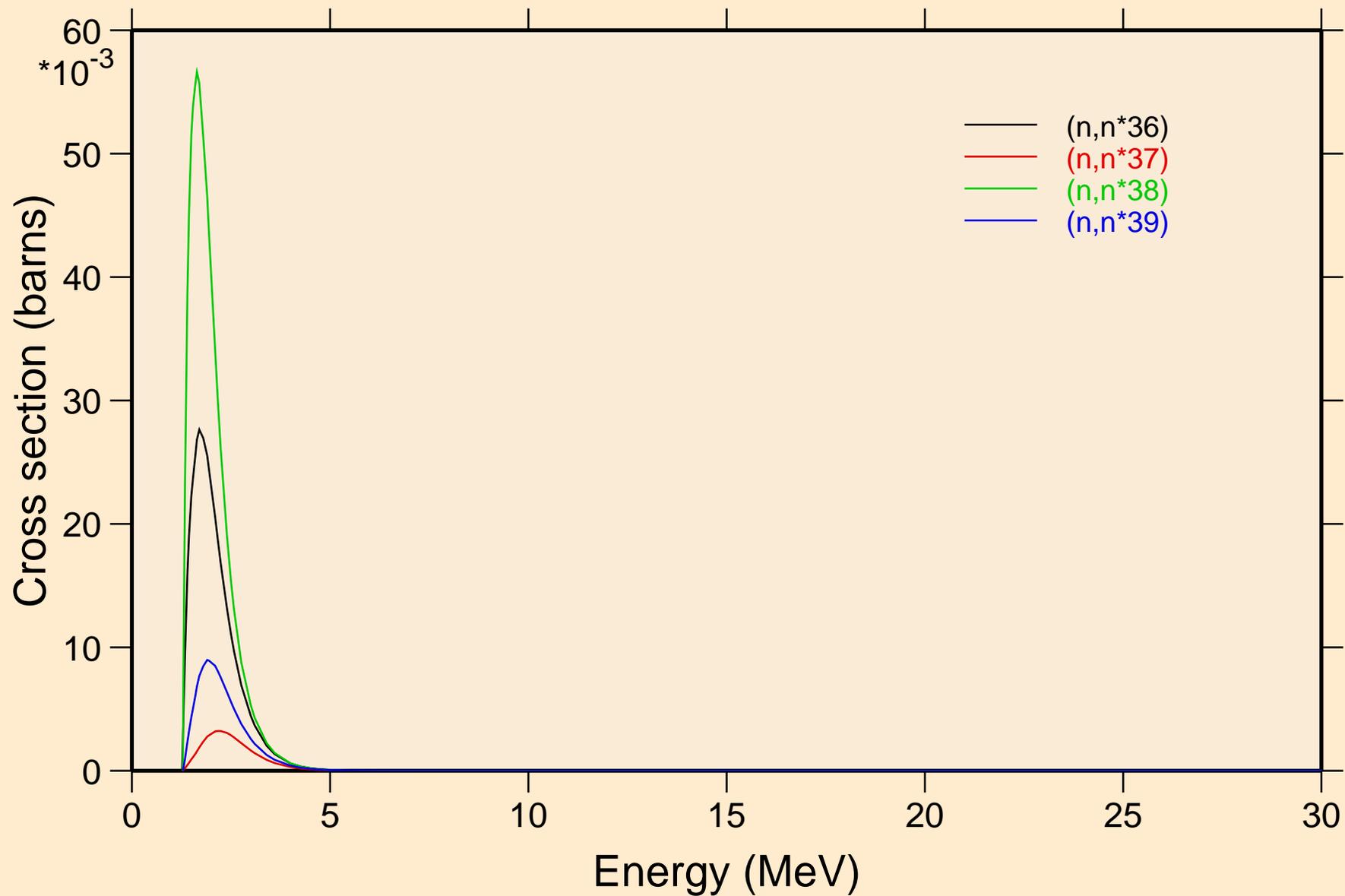
ADVANCE CALCULATIONS

Inelastic levels



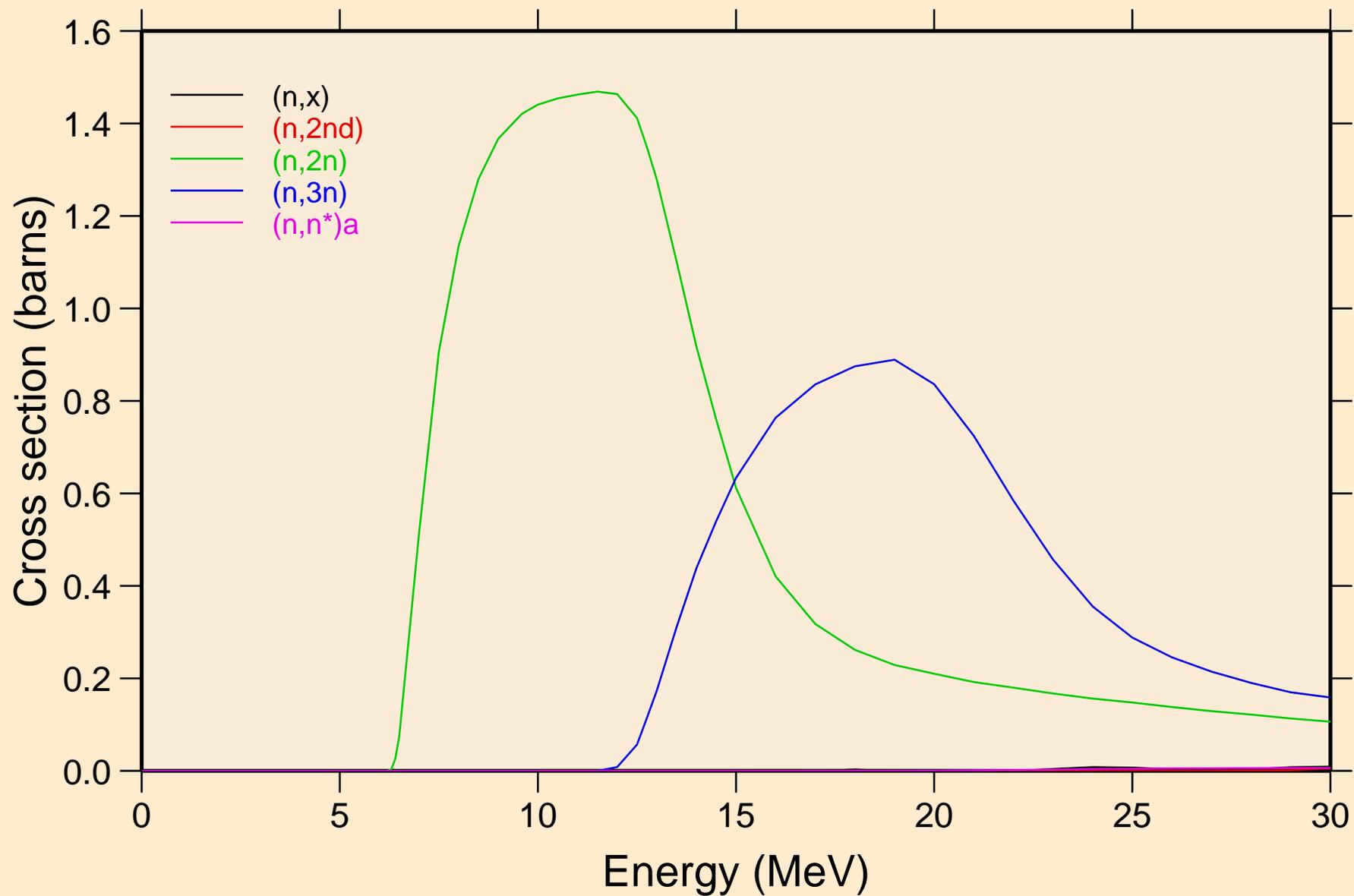
ADVANCE CALCULATIONS

Inelastic levels



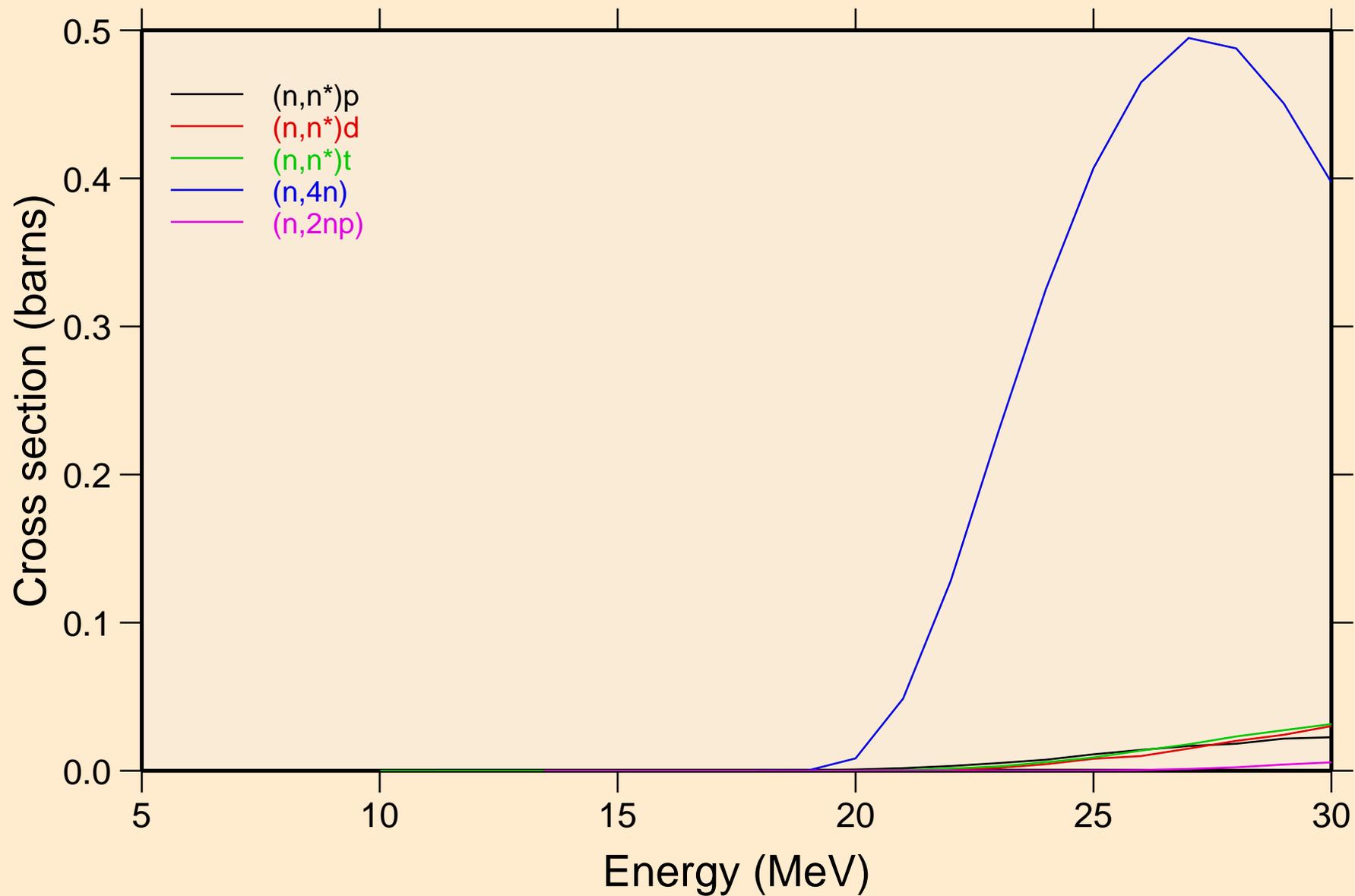
ADVANCE CALCULATIONS

Threshold reactions



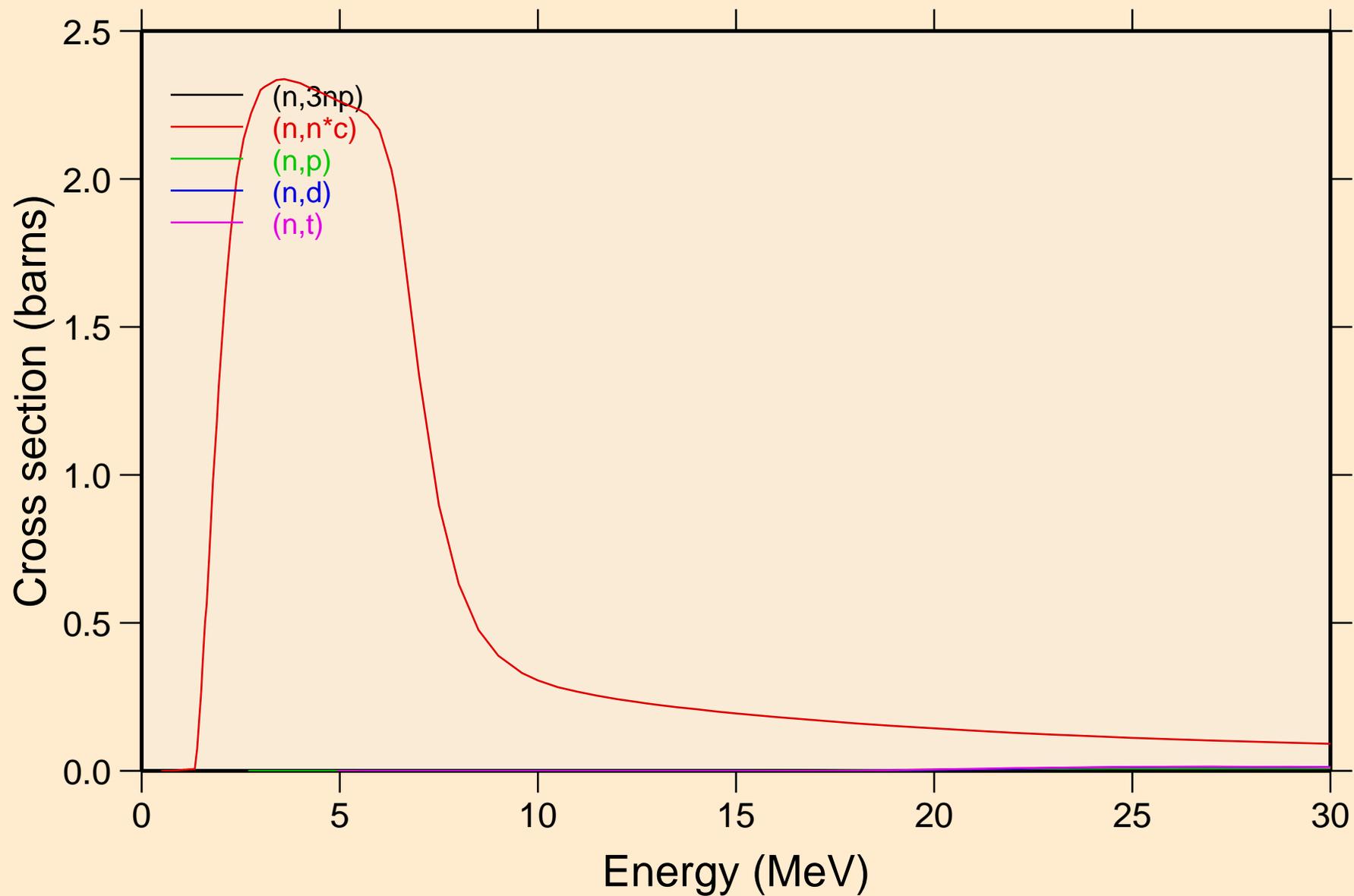
ADVANCE CALCULATIONS

Threshold reactions



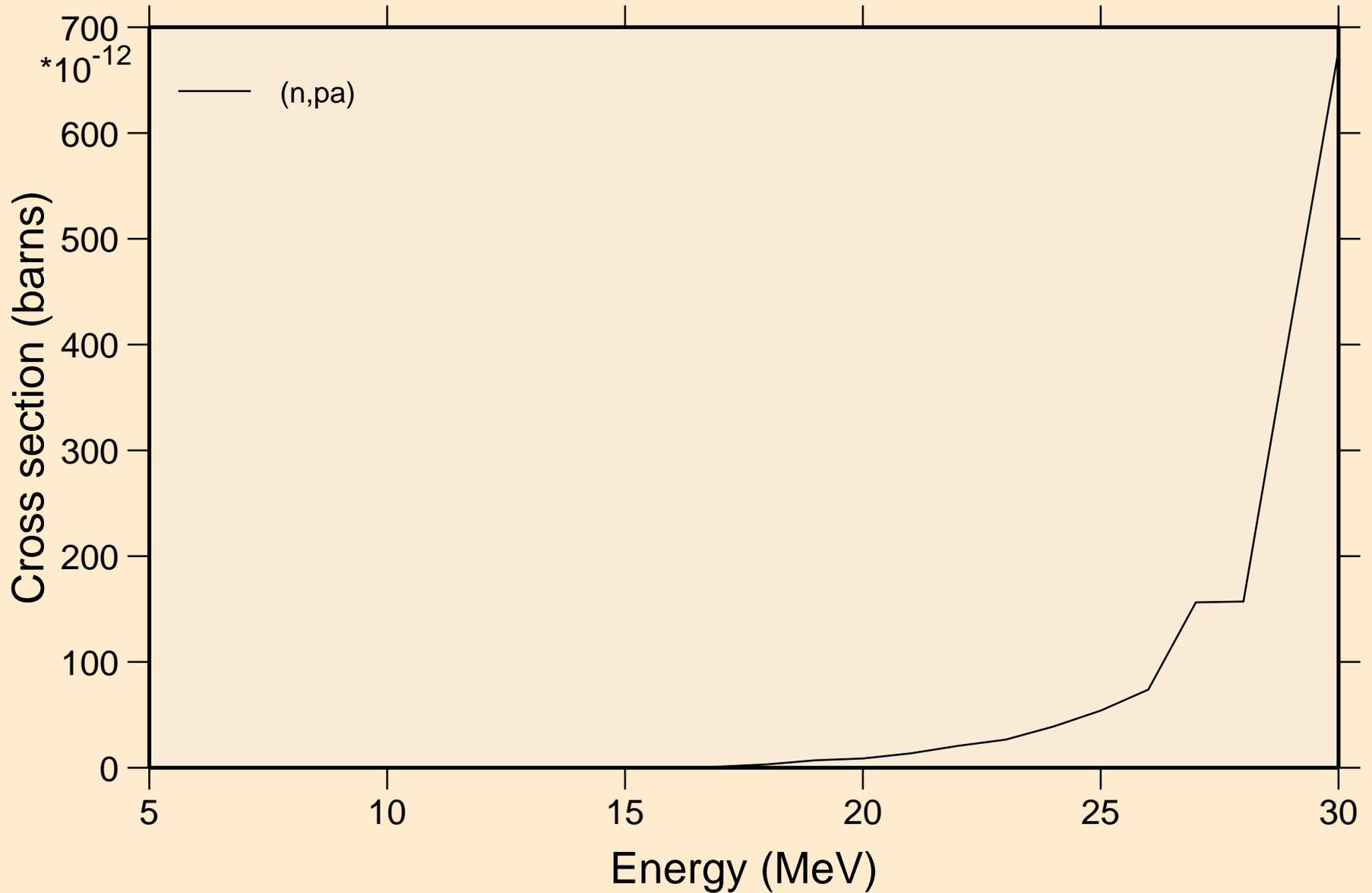
ADVANCE CALCULATIONS

Threshold reactions



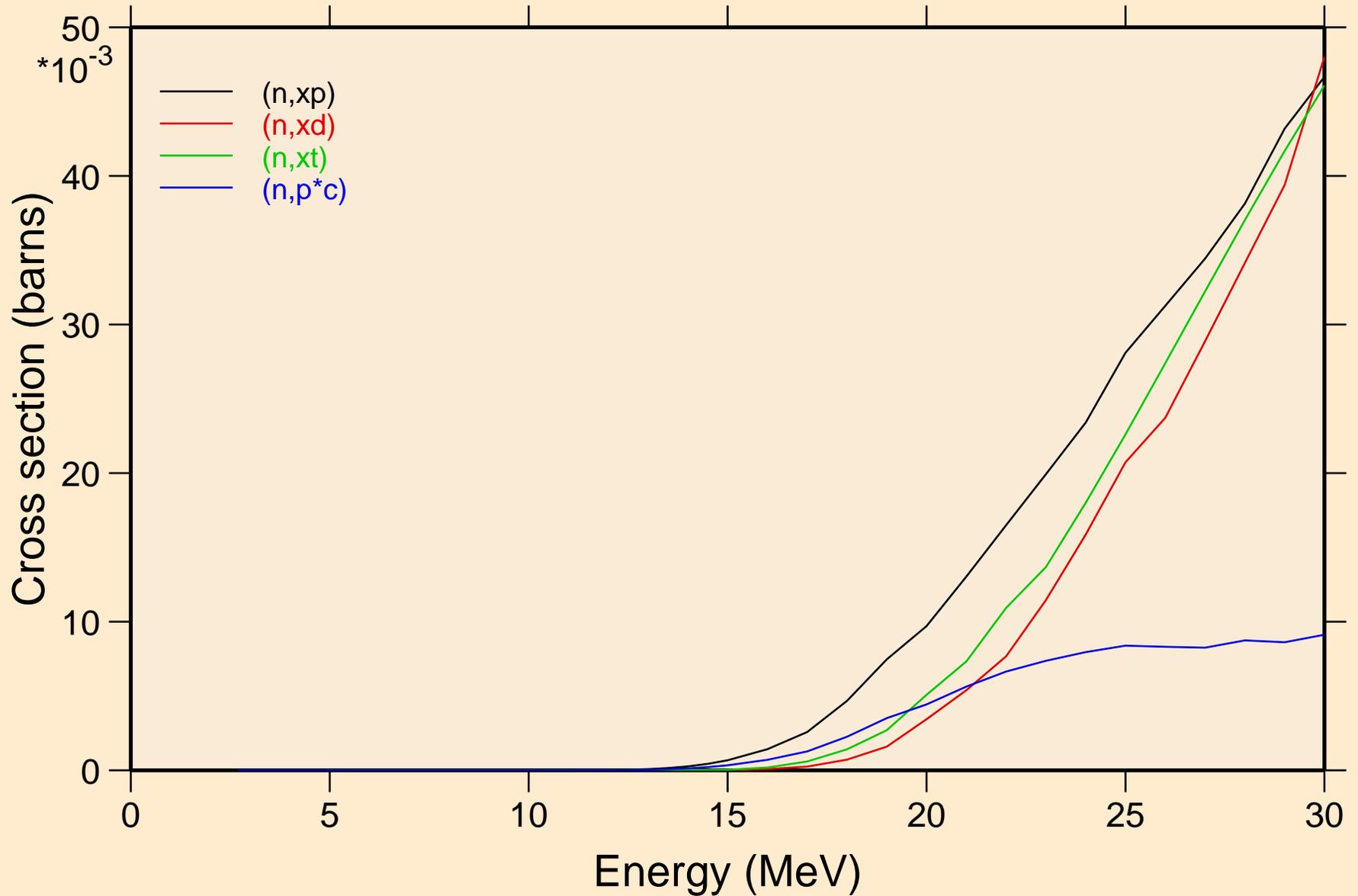
ADVANCE CALCULATIONS

Threshold reactions

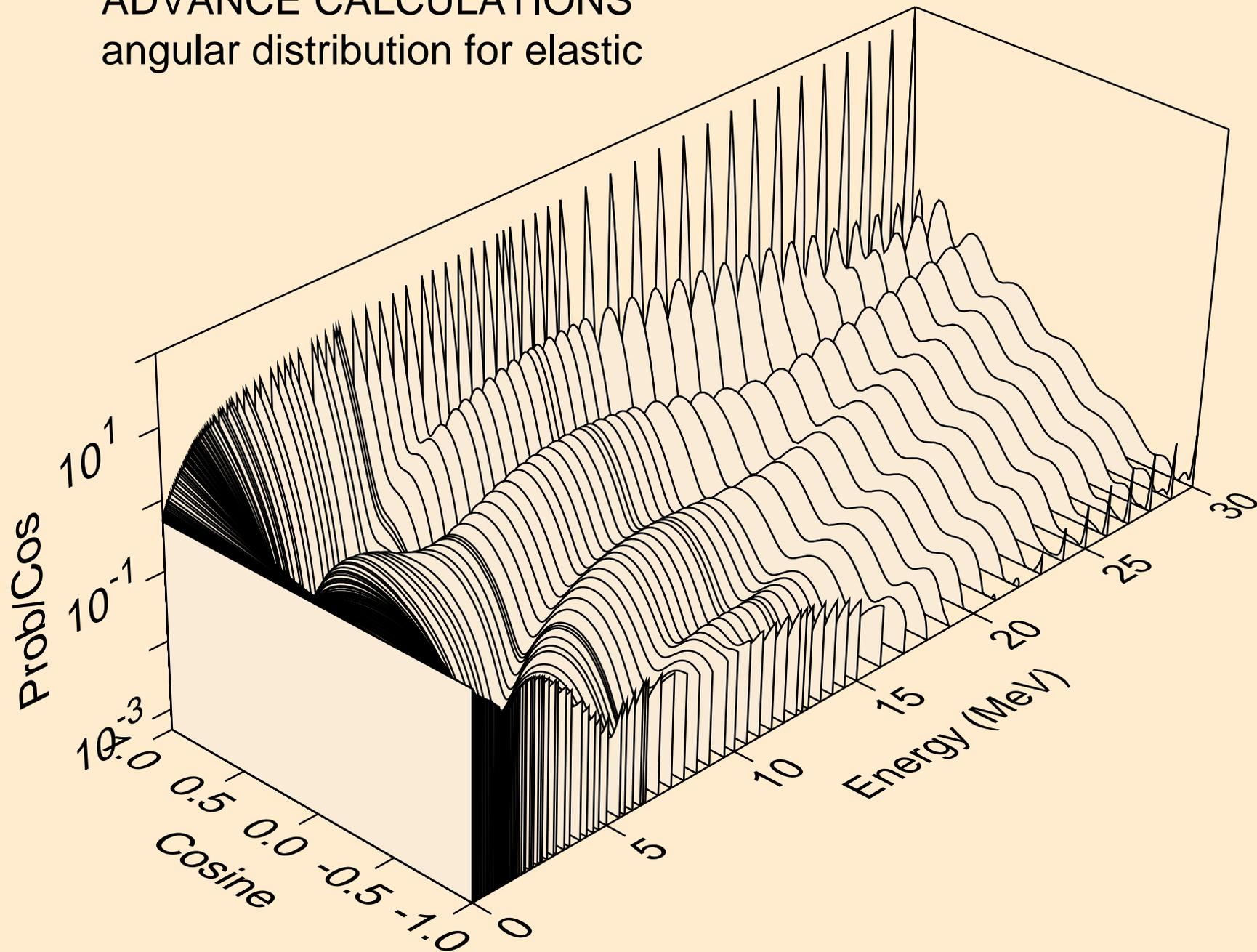


ADVANCE CALCULATIONS

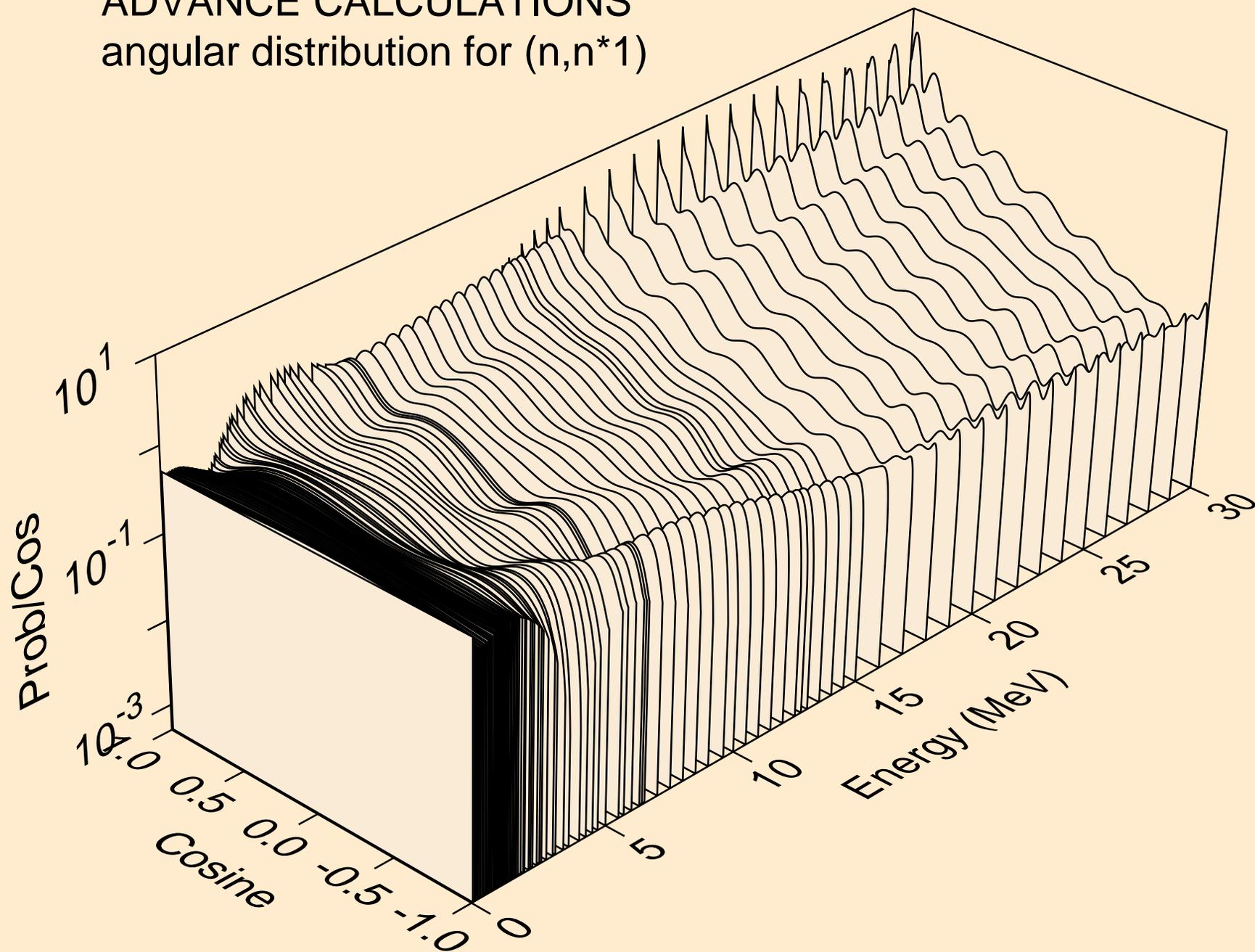
Threshold reactions



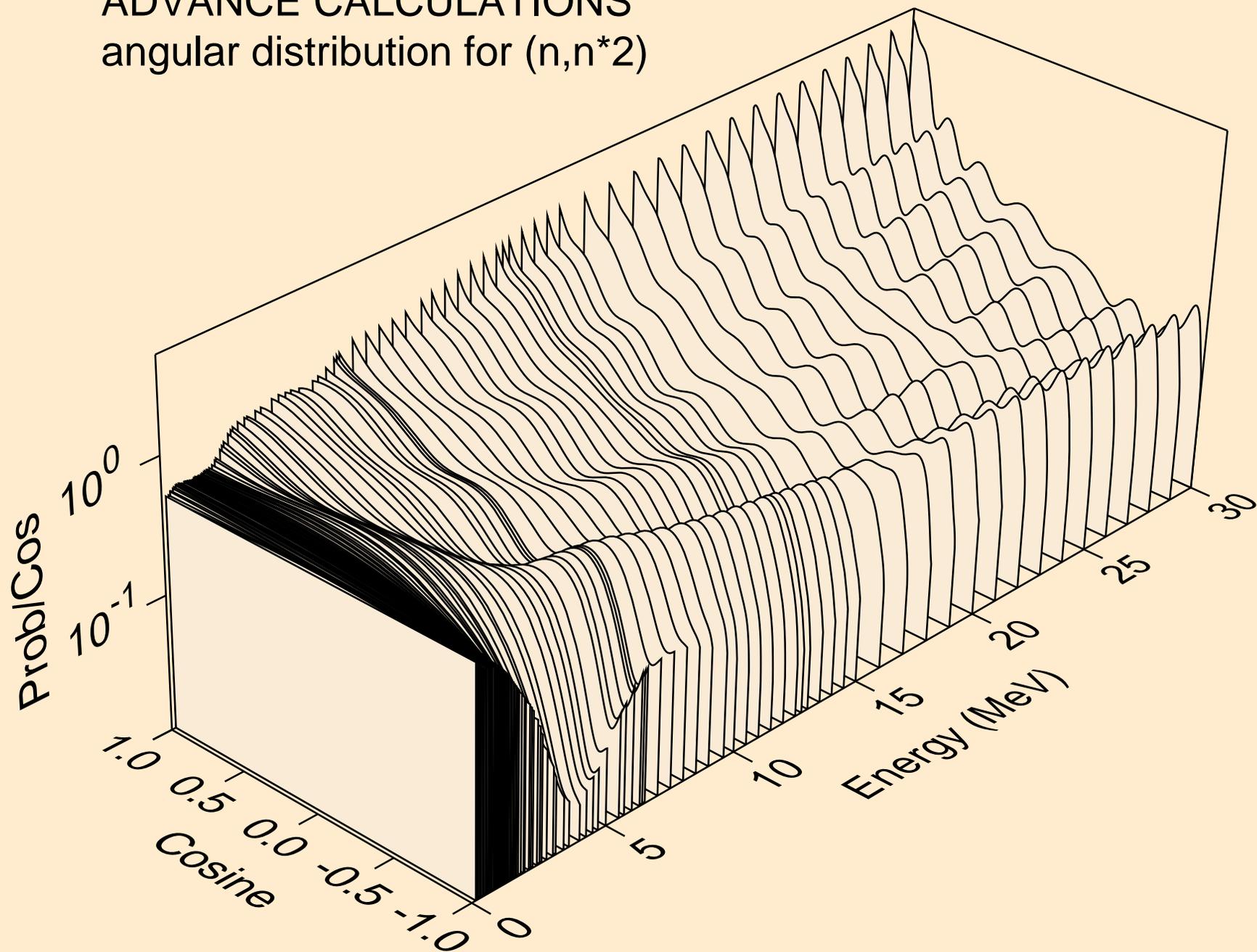
ADVANCE CALCULATIONS
angular distribution for elastic



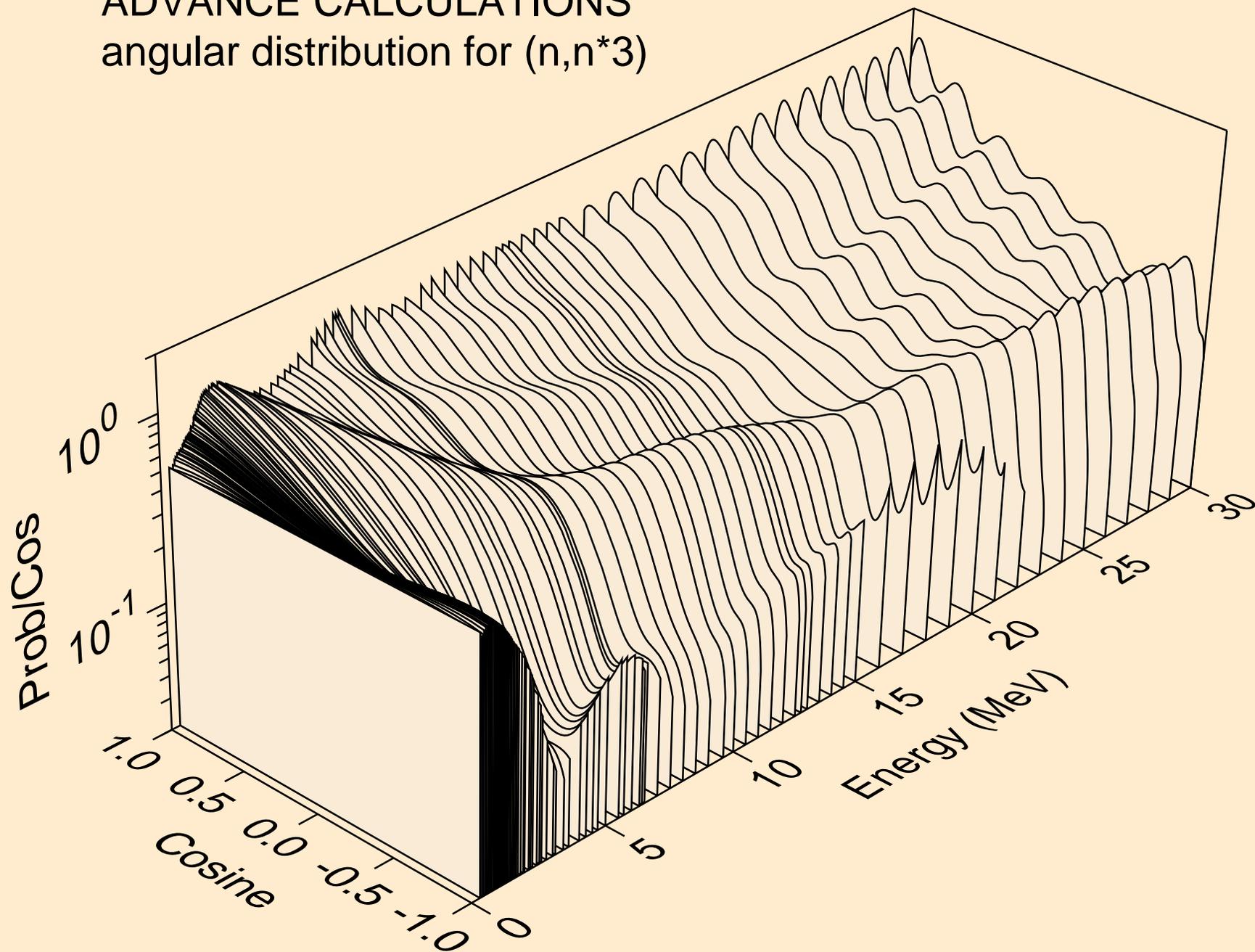
ADVANCE CALCULATIONS
angular distribution for (n,n*1)



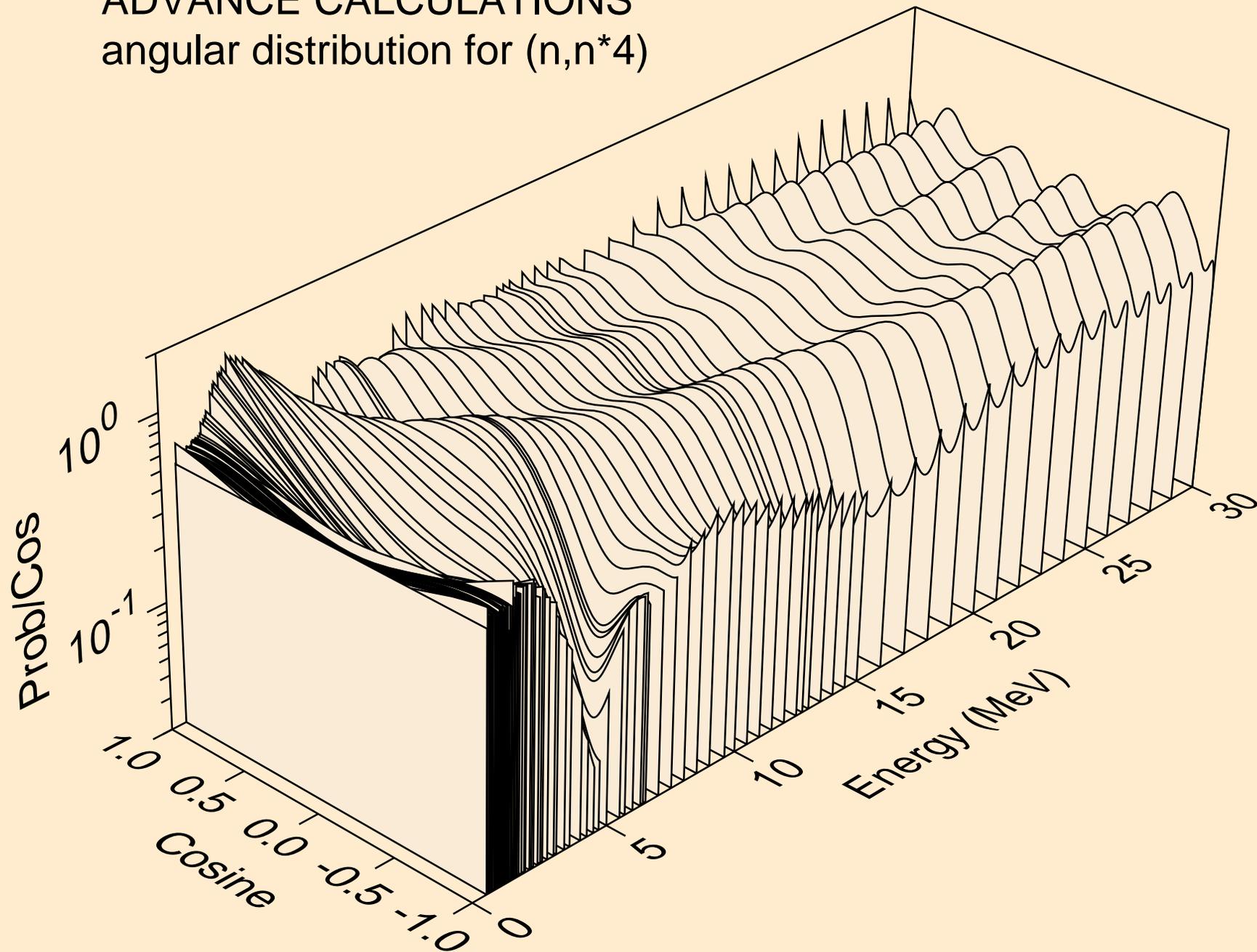
ADVANCE CALCULATIONS
angular distribution for (n,n*2)



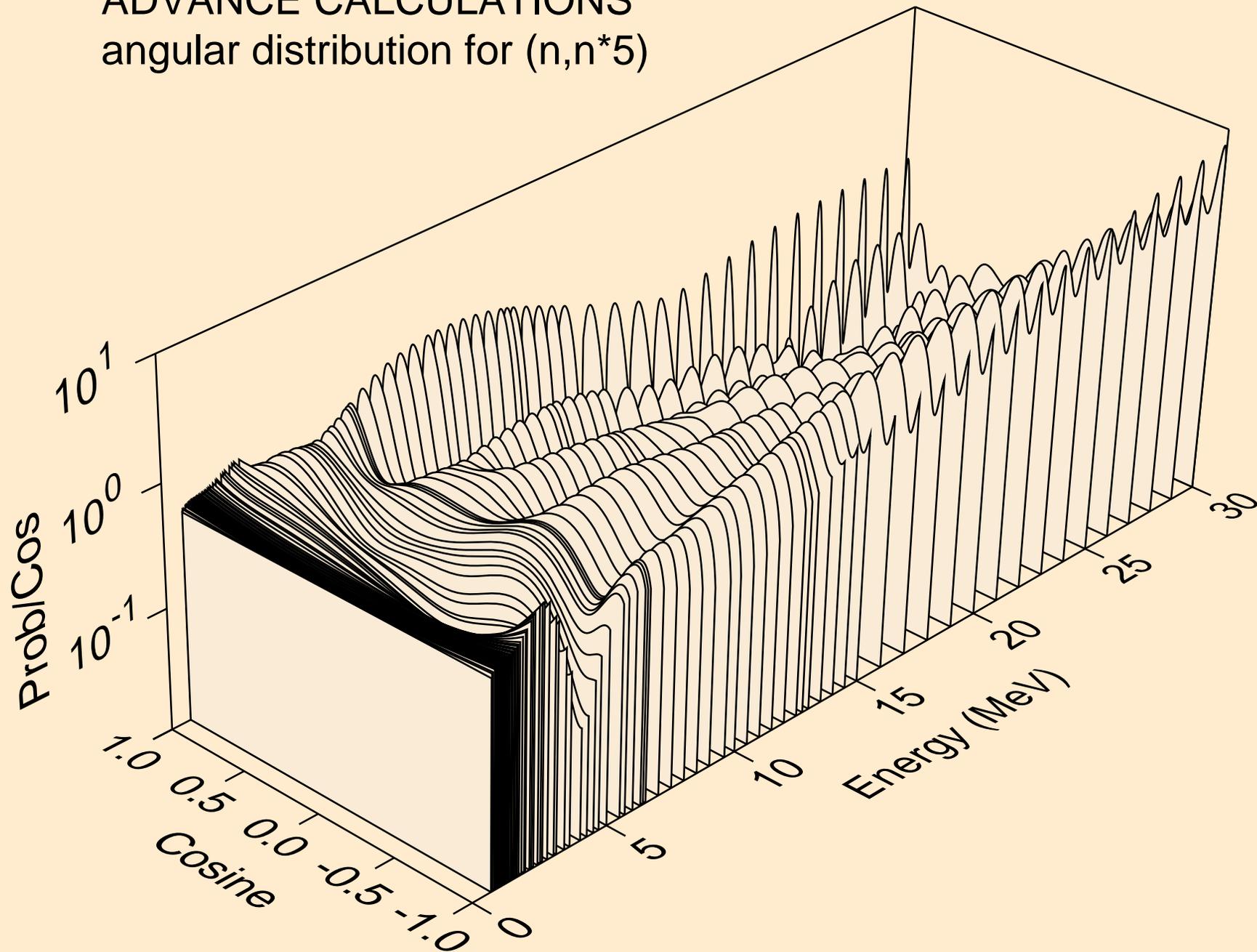
ADVANCE CALCULATIONS
angular distribution for (n,n*3)



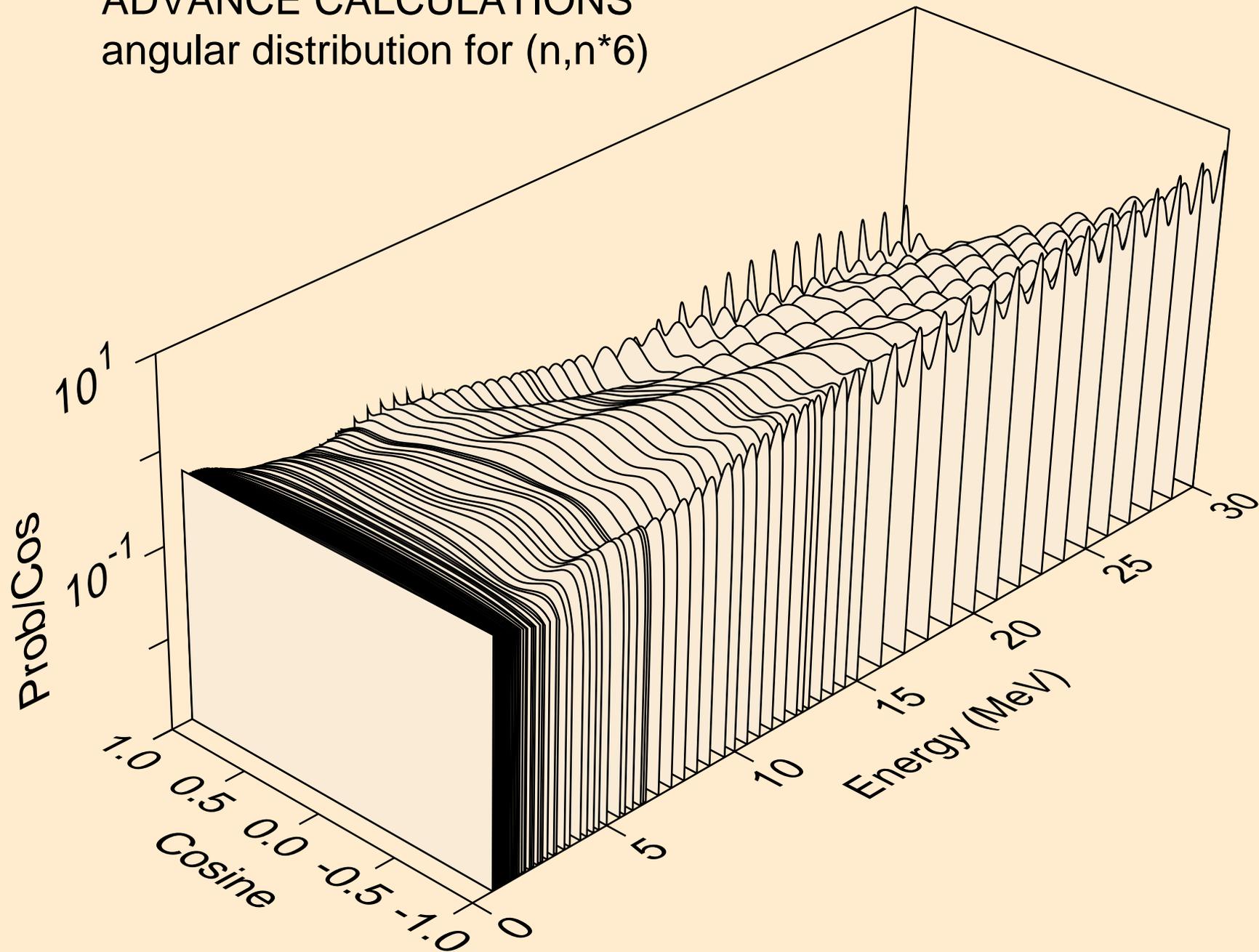
ADVANCE CALCULATIONS
angular distribution for (n,n*4)



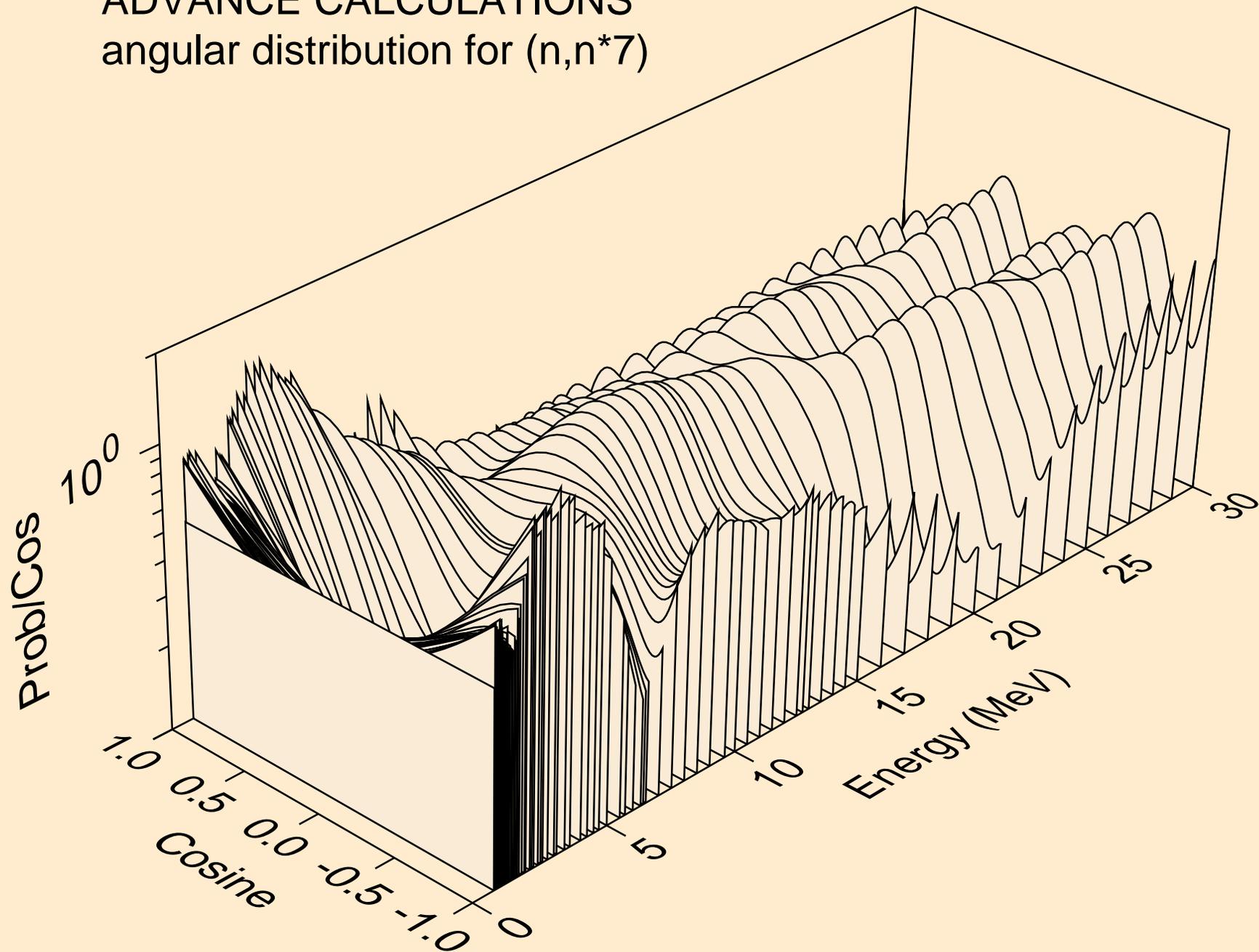
ADVANCE CALCULATIONS
angular distribution for (n,n*5)



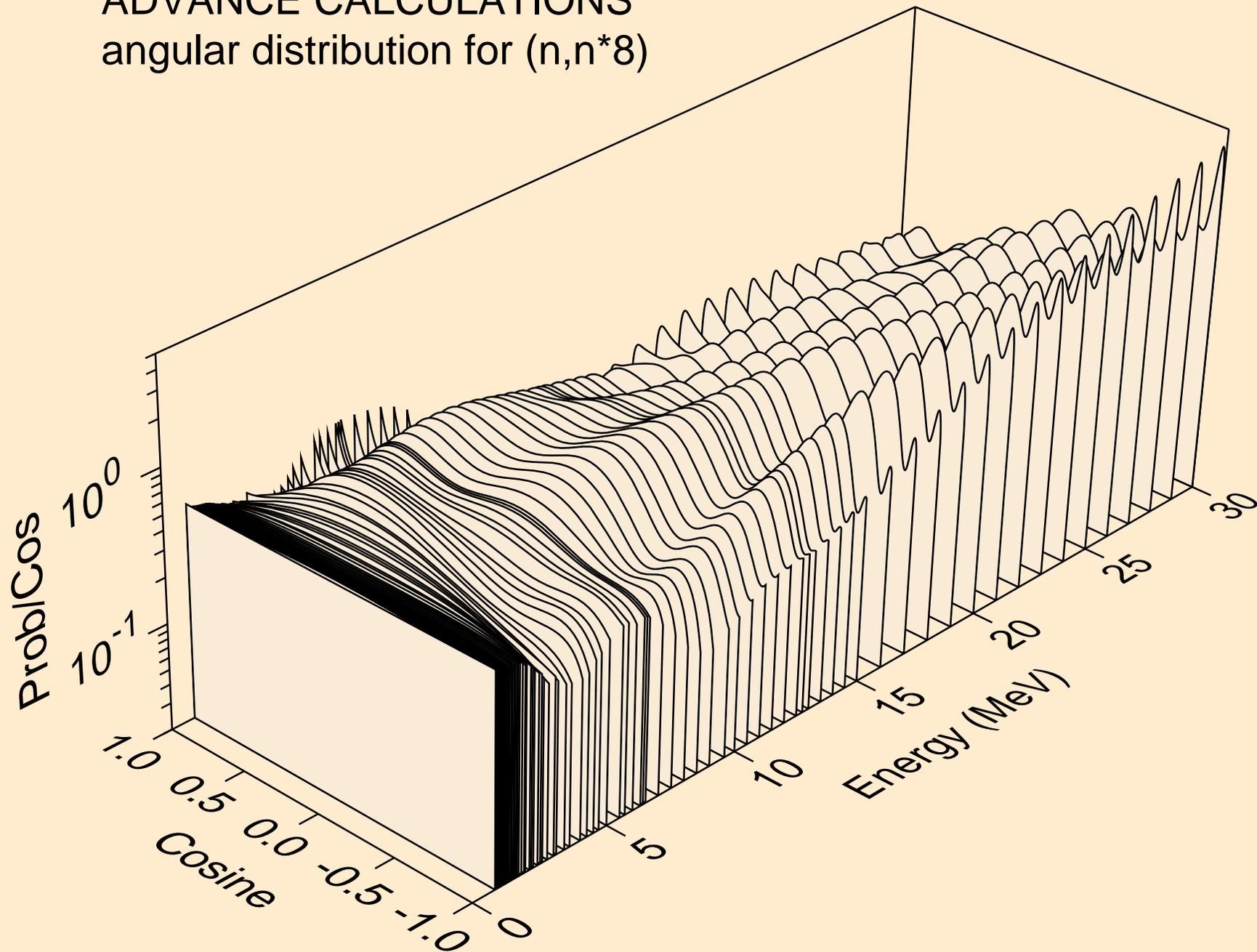
ADVANCE CALCULATIONS
angular distribution for (n,n*6)



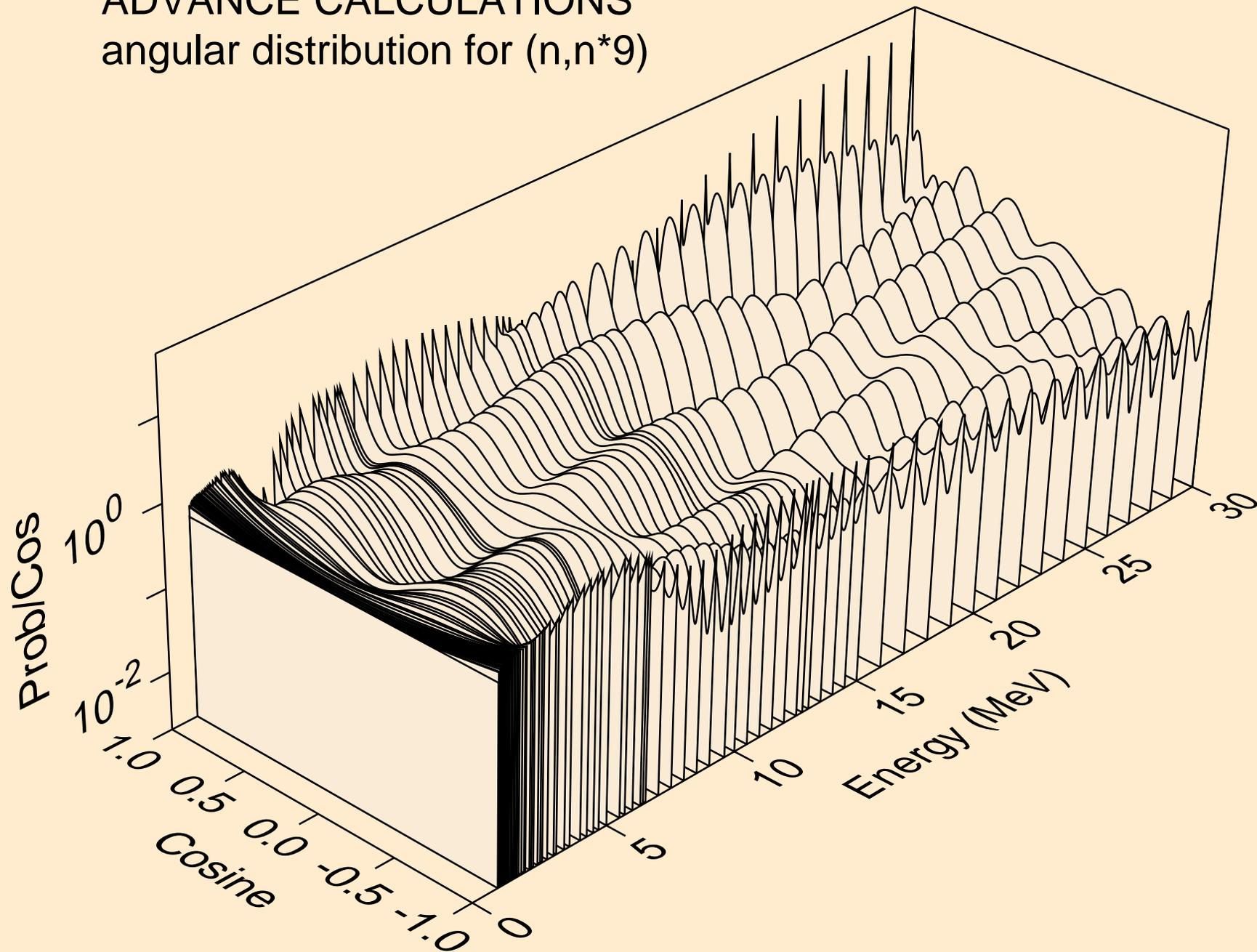
ADVANCE CALCULATIONS
angular distribution for (n,n*7)



ADVANCE CALCULATIONS
angular distribution for (n,n*8)

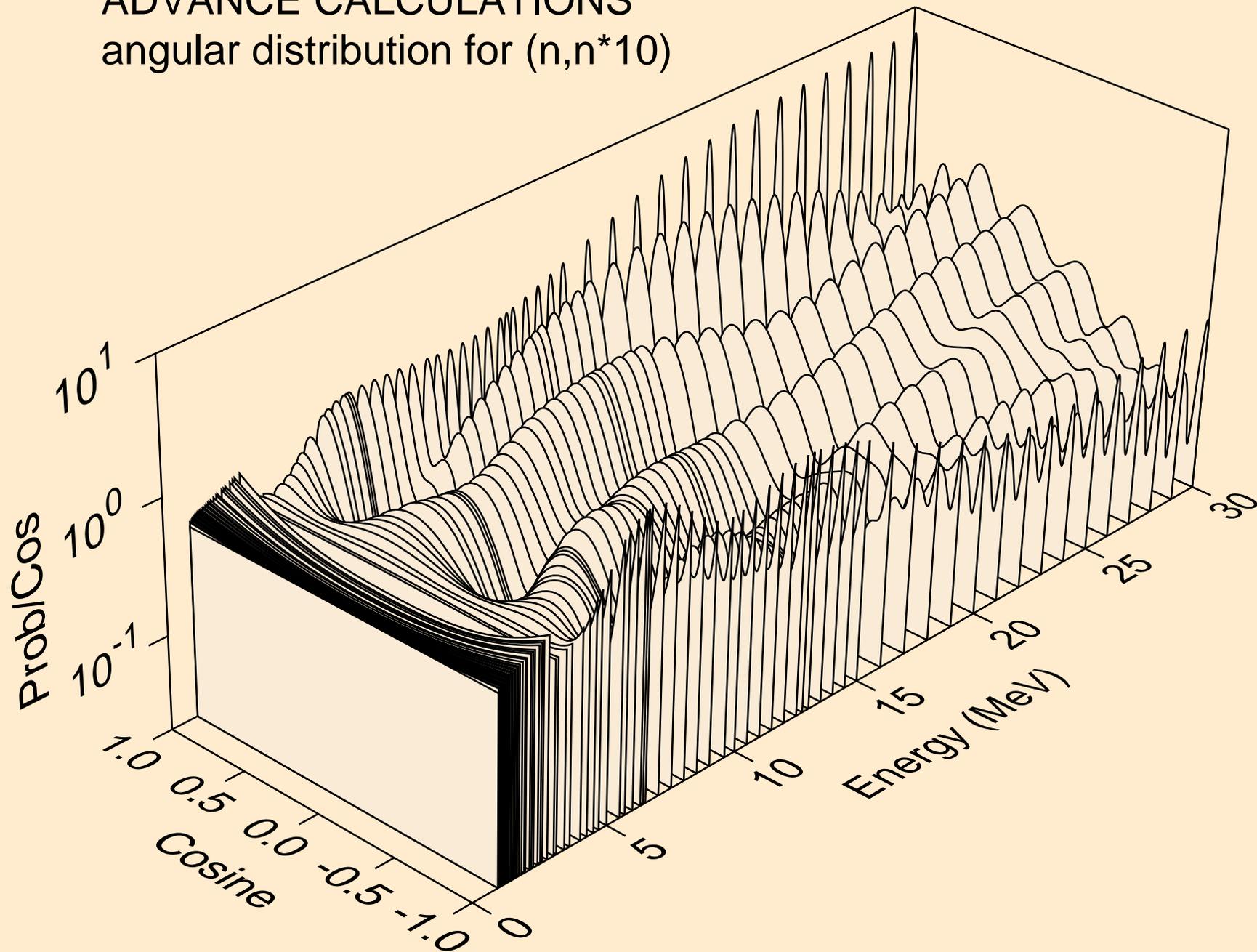


ADVANCE CALCULATIONS
angular distribution for (n,n*9)

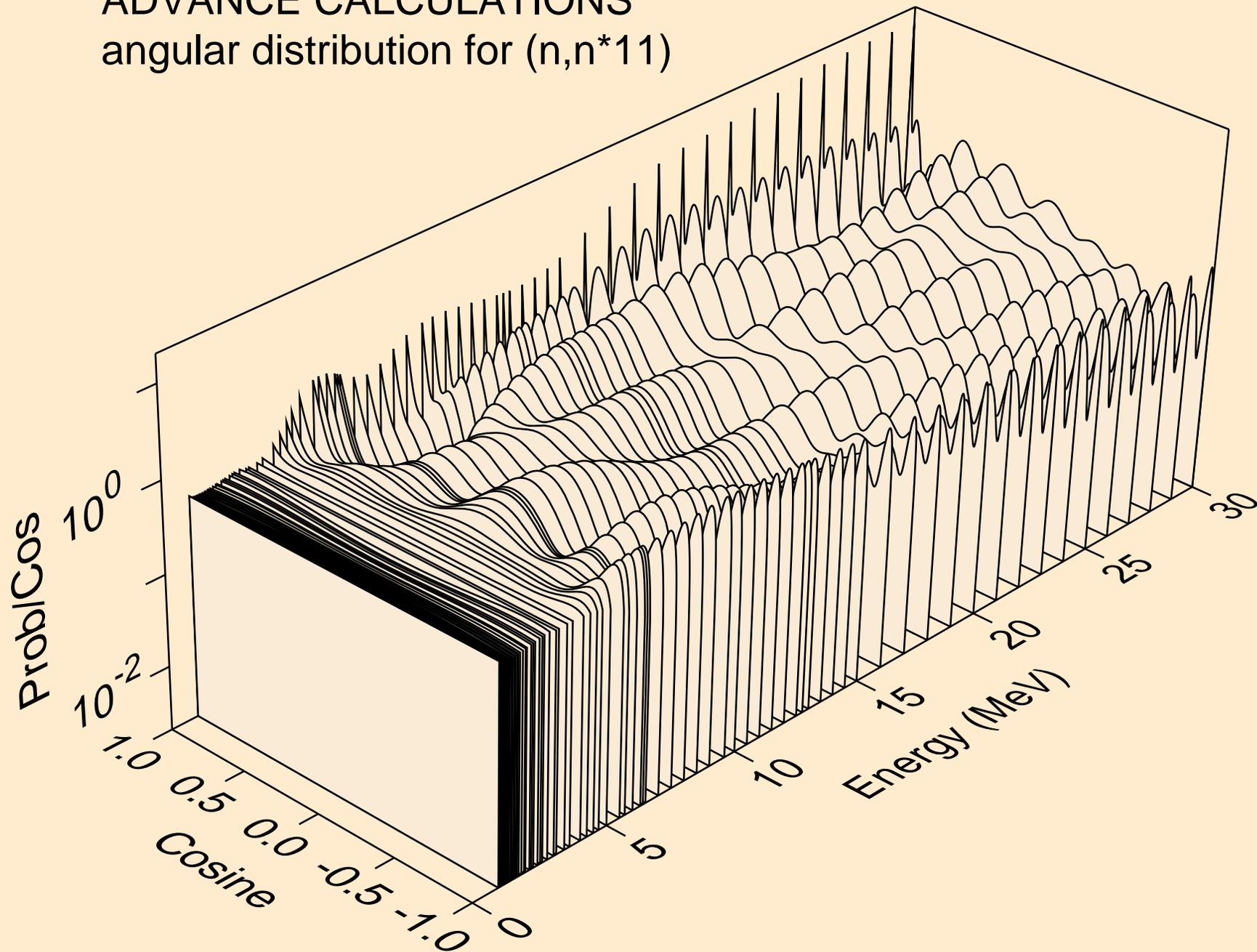


ADVANCE CALCULATIONS

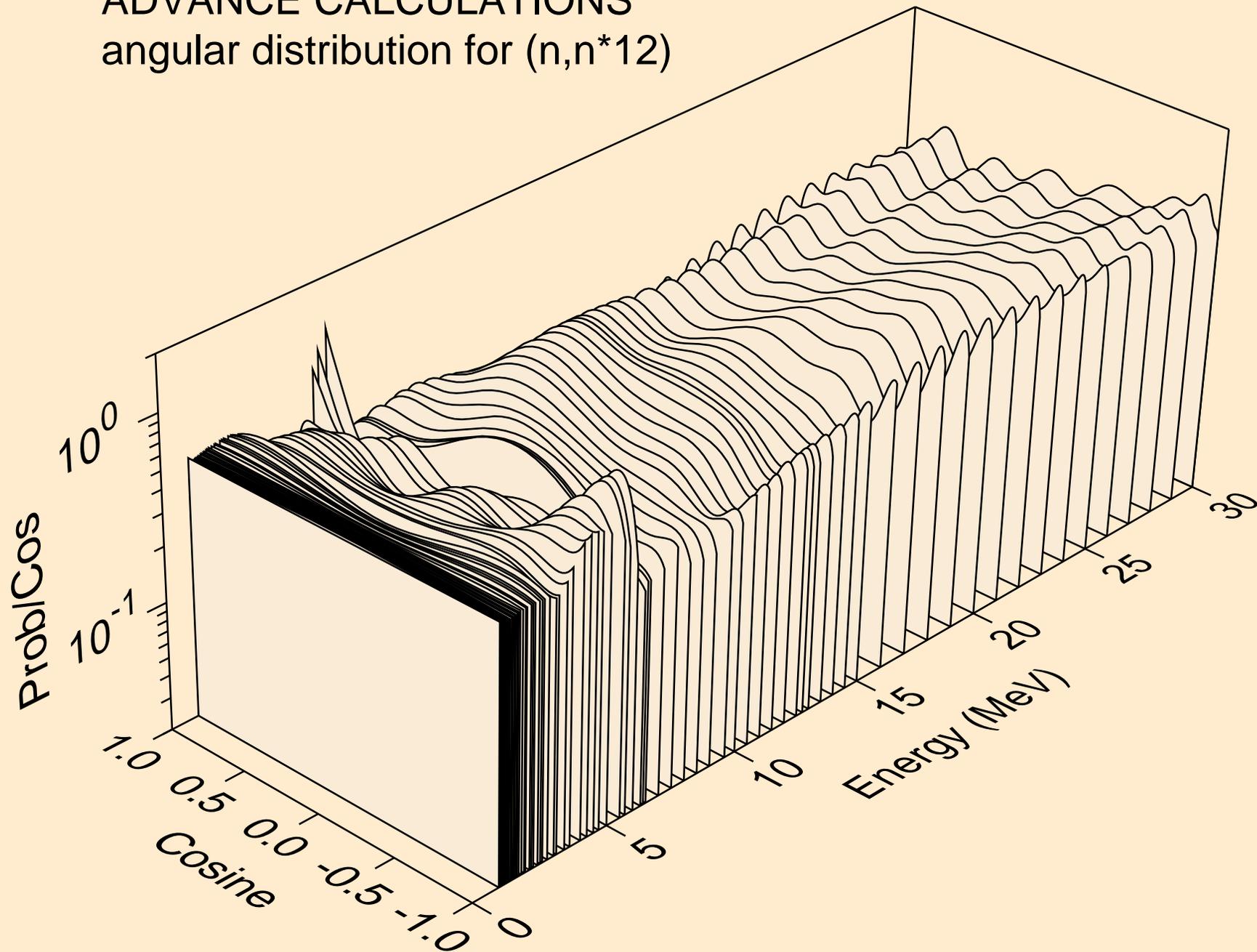
angular distribution for (n,n*10)



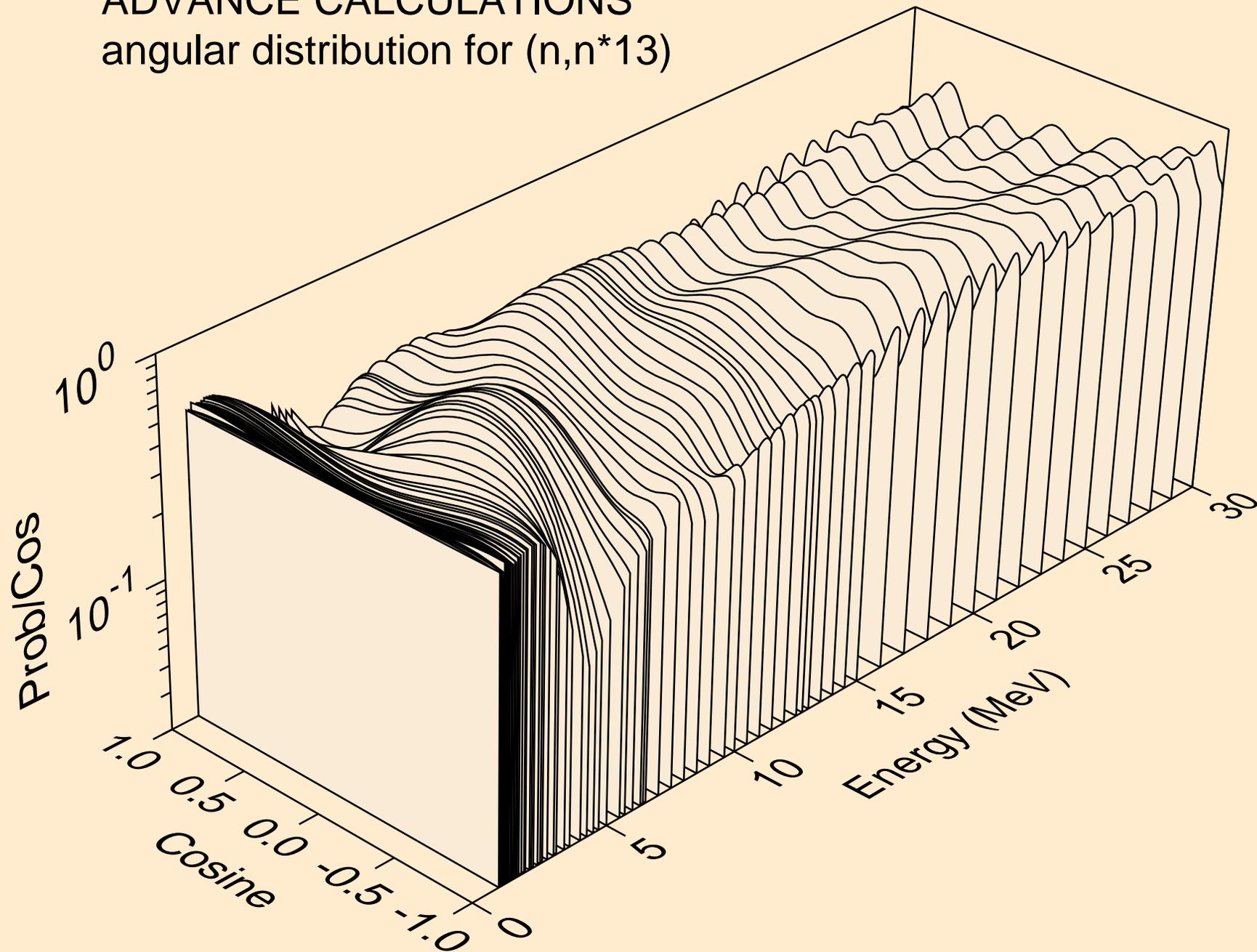
ADVANCE CALCULATIONS
angular distribution for (n,n*11)



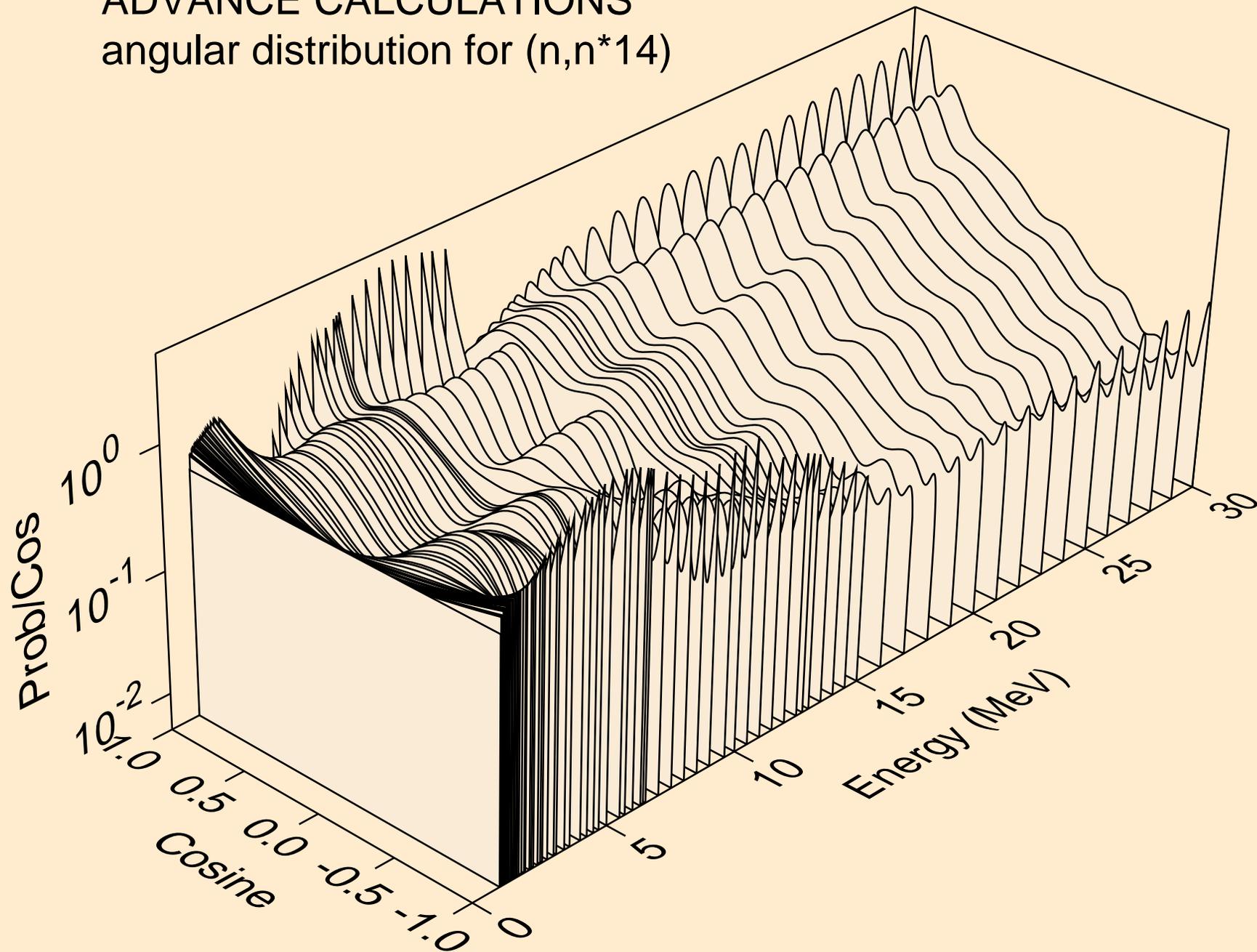
ADVANCE CALCULATIONS
angular distribution for (n,n*12)



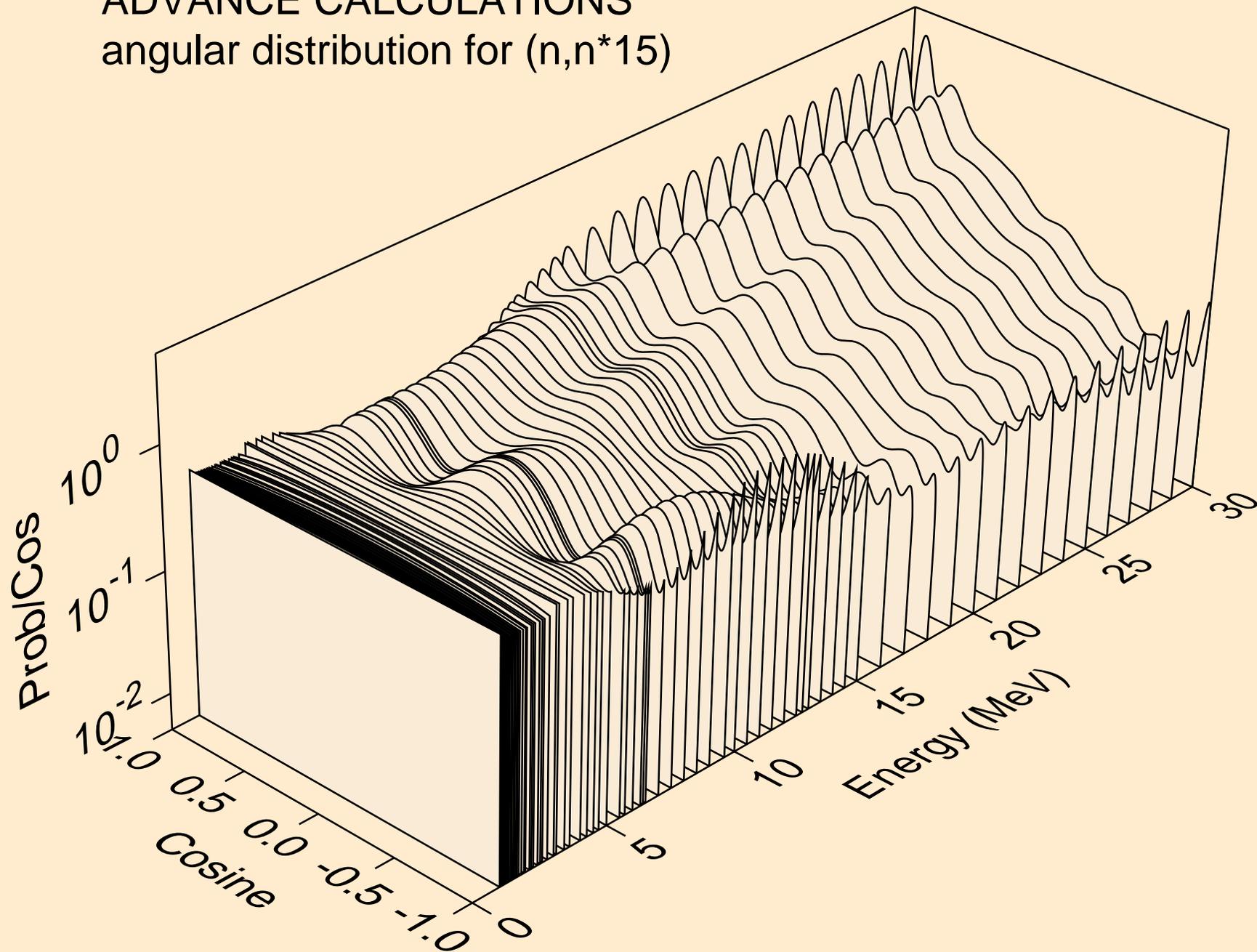
ADVANCE CALCULATIONS
angular distribution for (n,n*13)



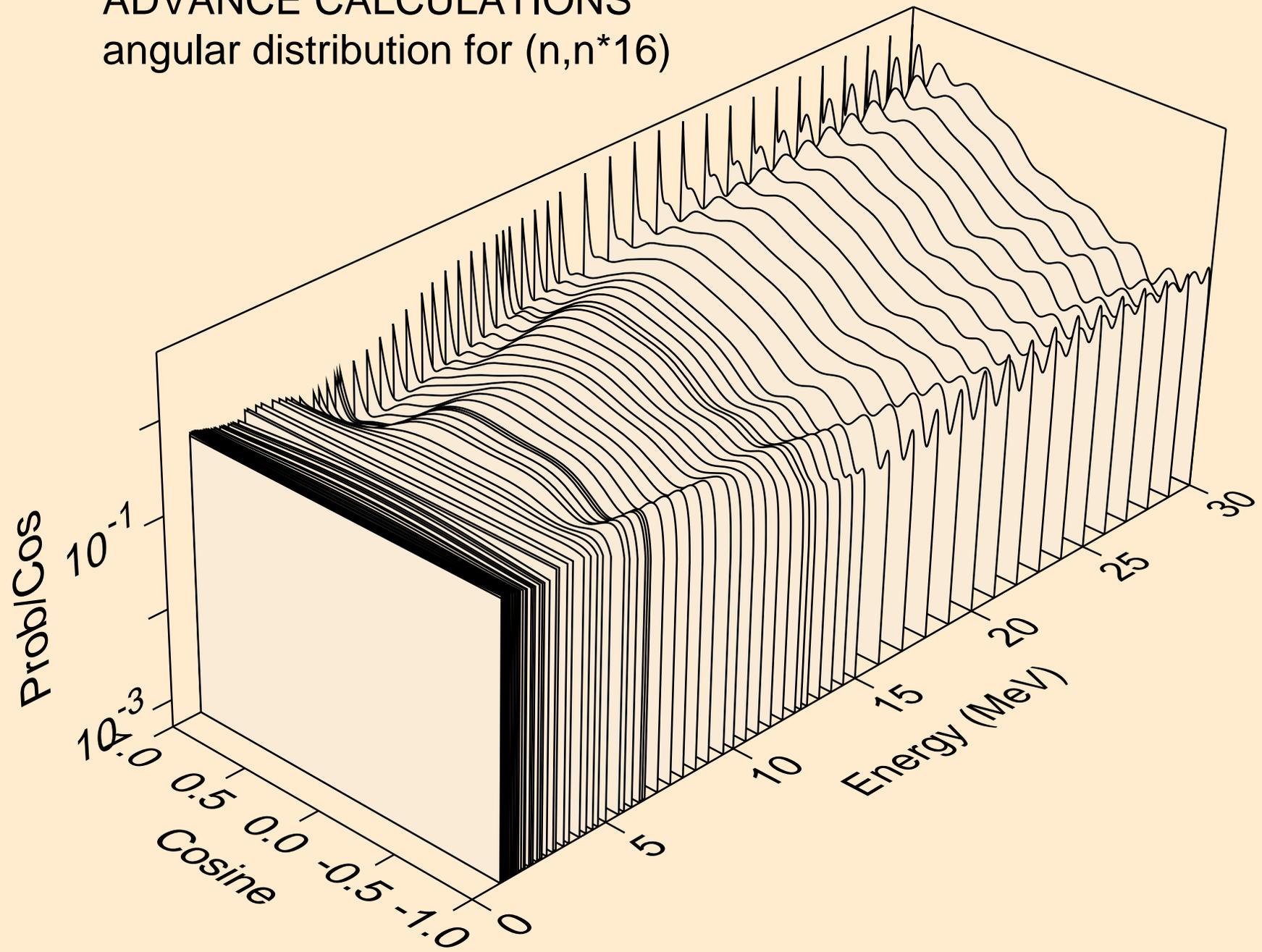
ADVANCE CALCULATIONS
angular distribution for (n,n*14)



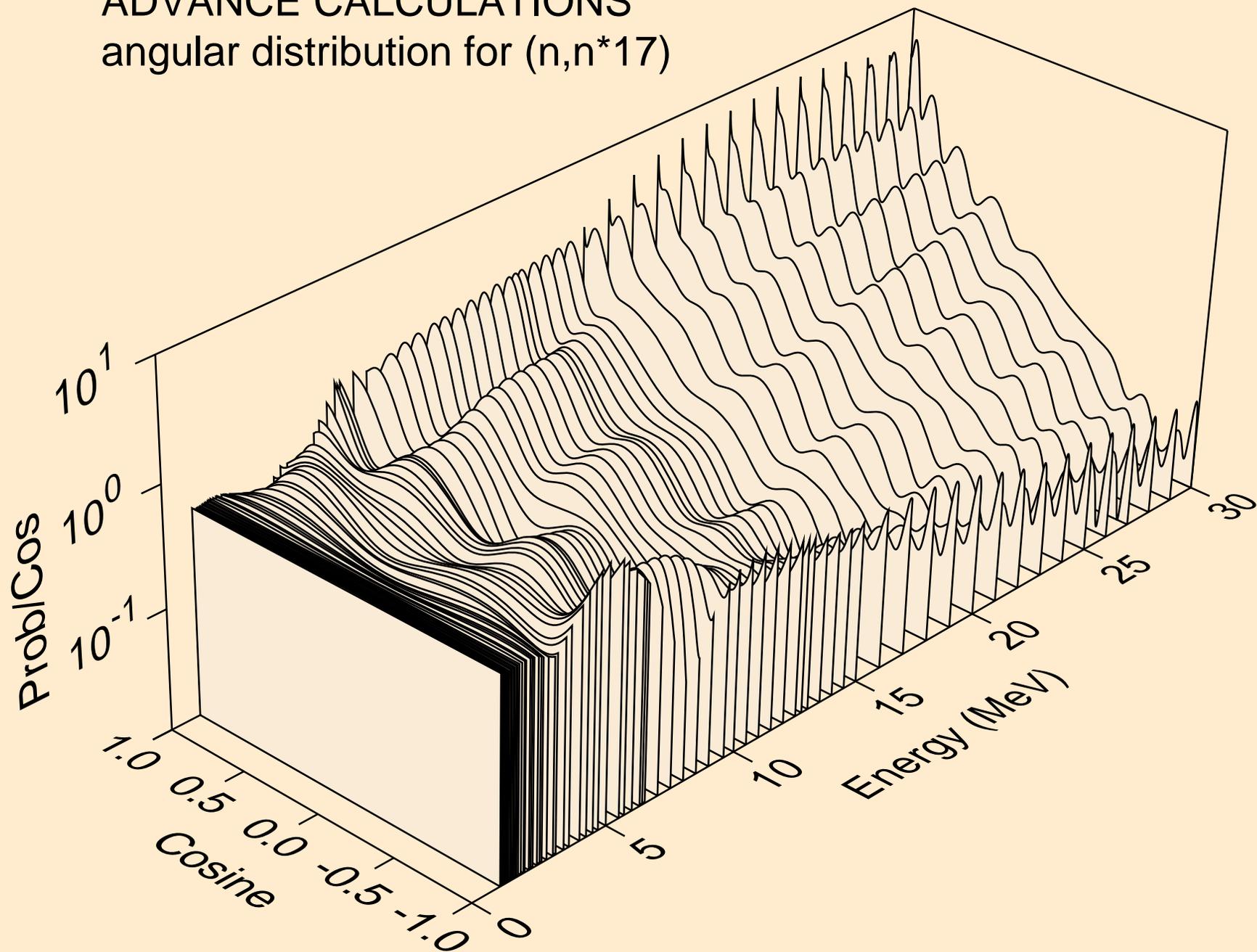
ADVANCE CALCULATIONS
angular distribution for (n,n*15)



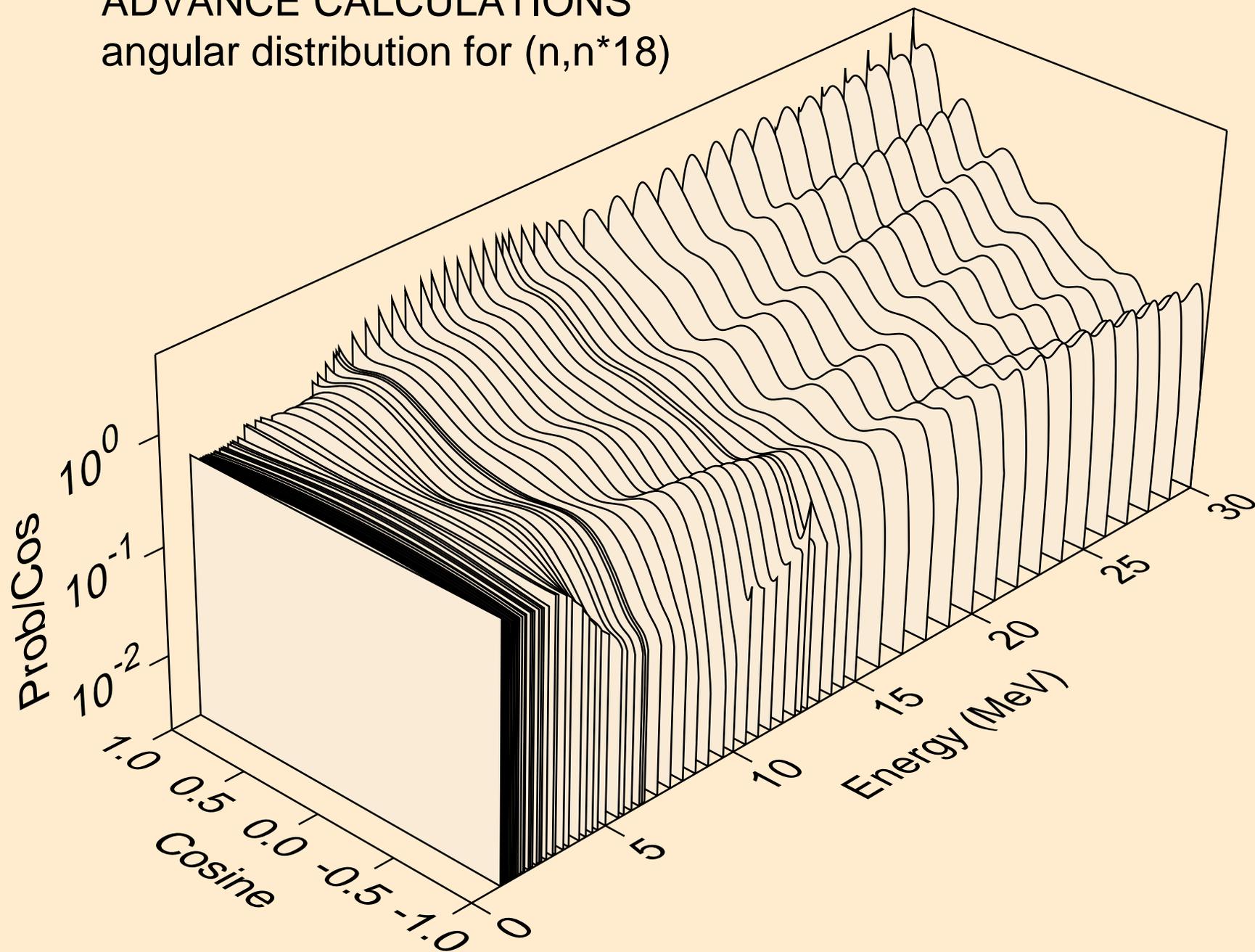
ADVANCE CALCULATIONS
angular distribution for (n,n*16)



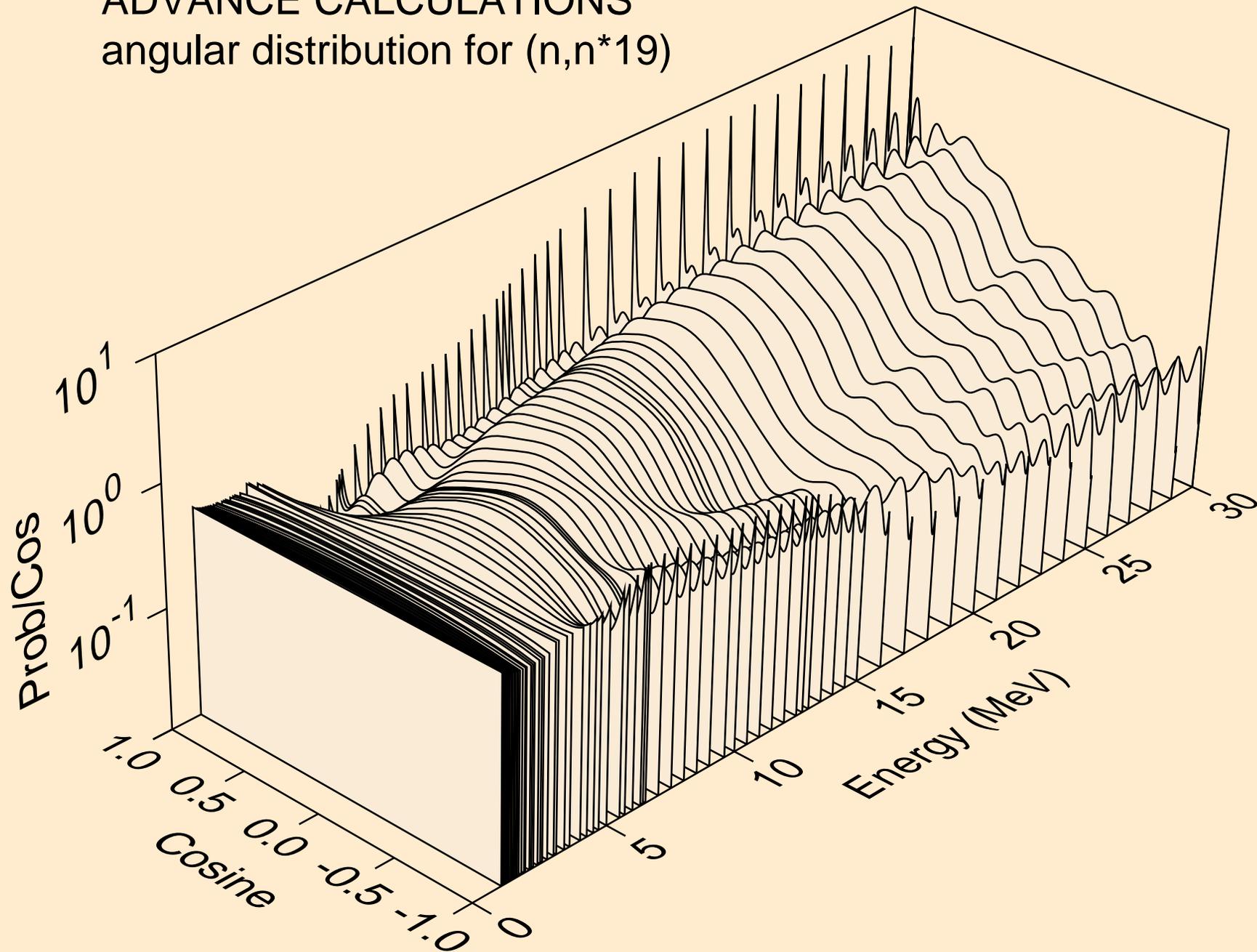
ADVANCE CALCULATIONS
angular distribution for (n,n*17)



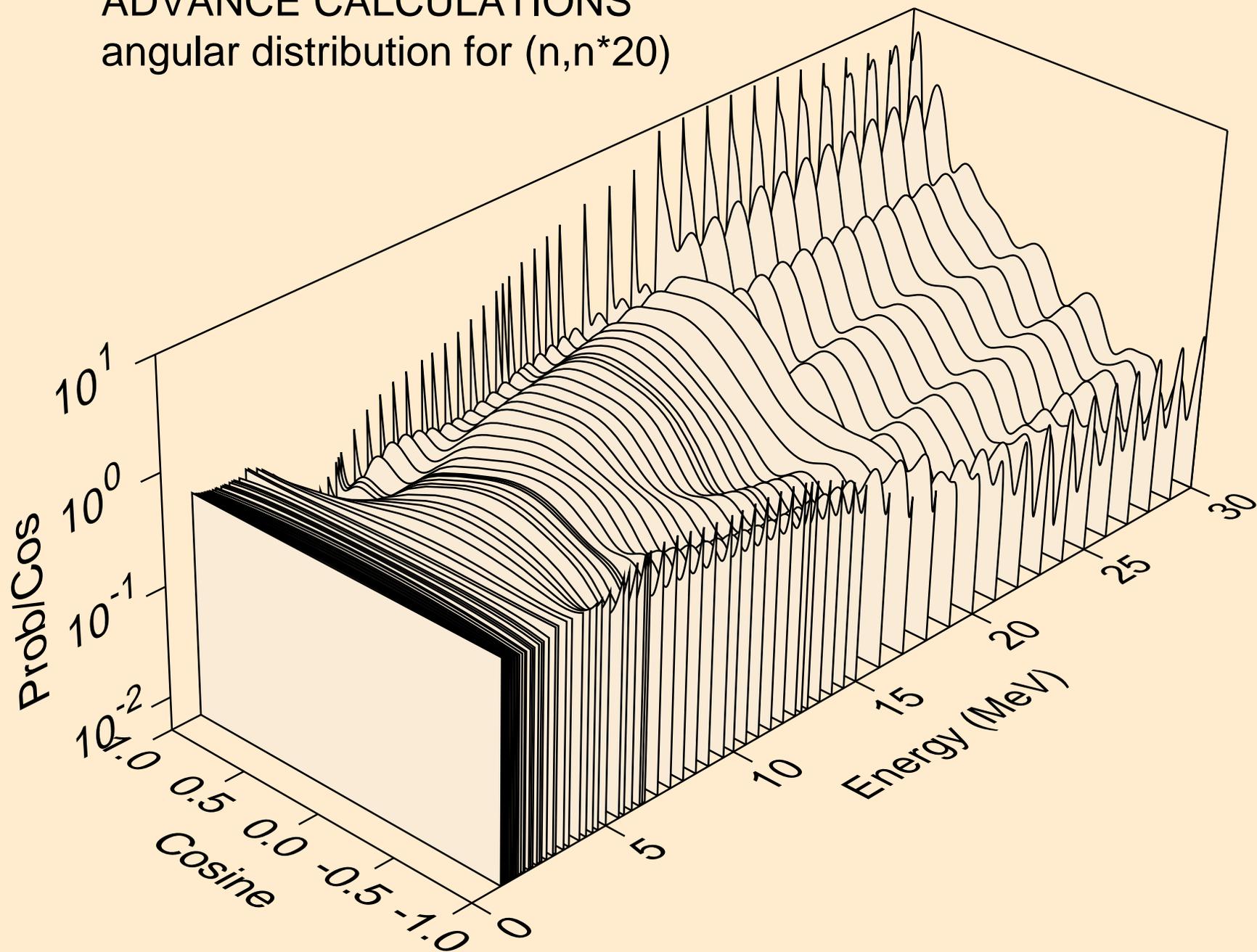
ADVANCE CALCULATIONS
angular distribution for (n,n*18)



ADVANCE CALCULATIONS
angular distribution for (n,n*19)

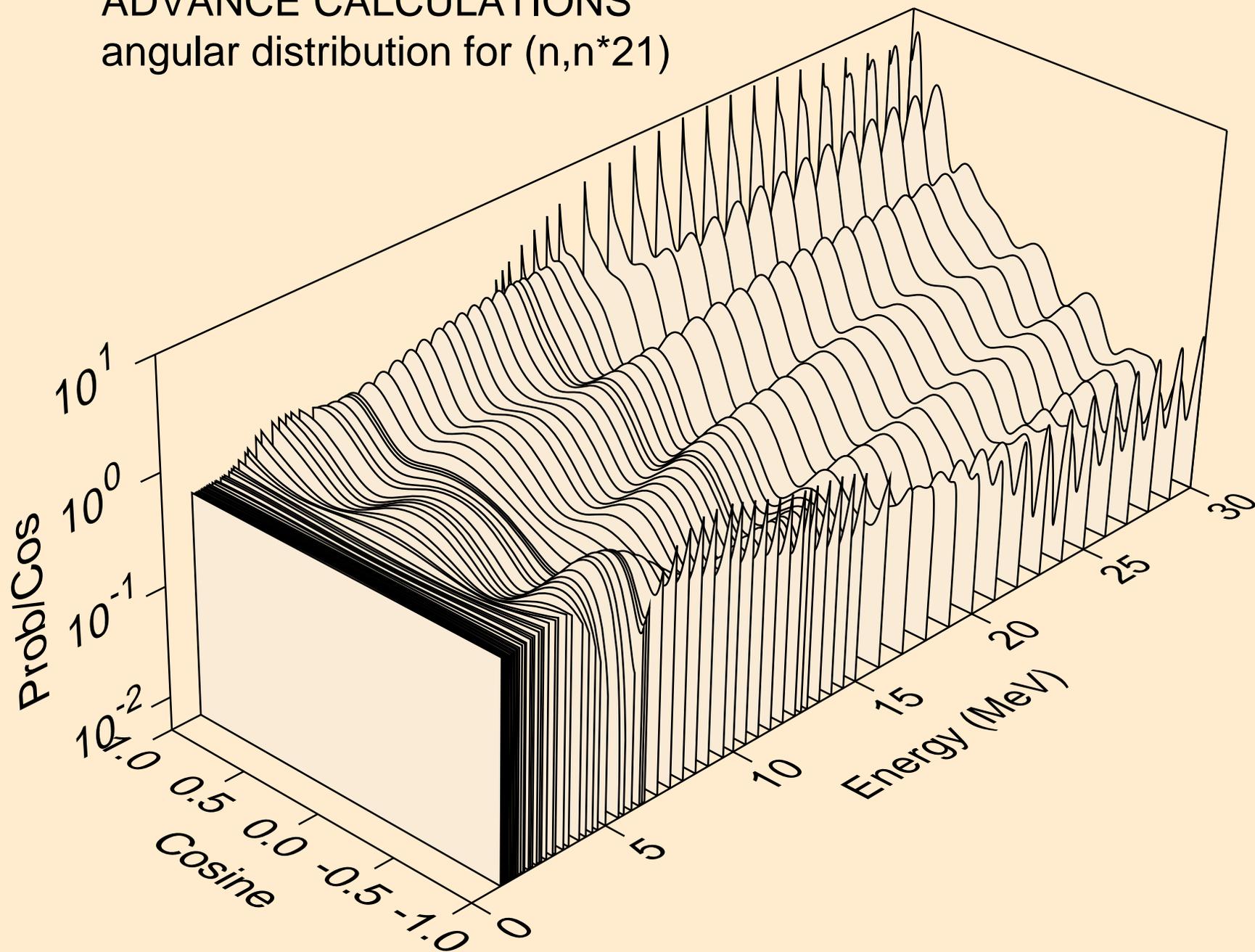


ADVANCE CALCULATIONS
angular distribution for (n,n*20)

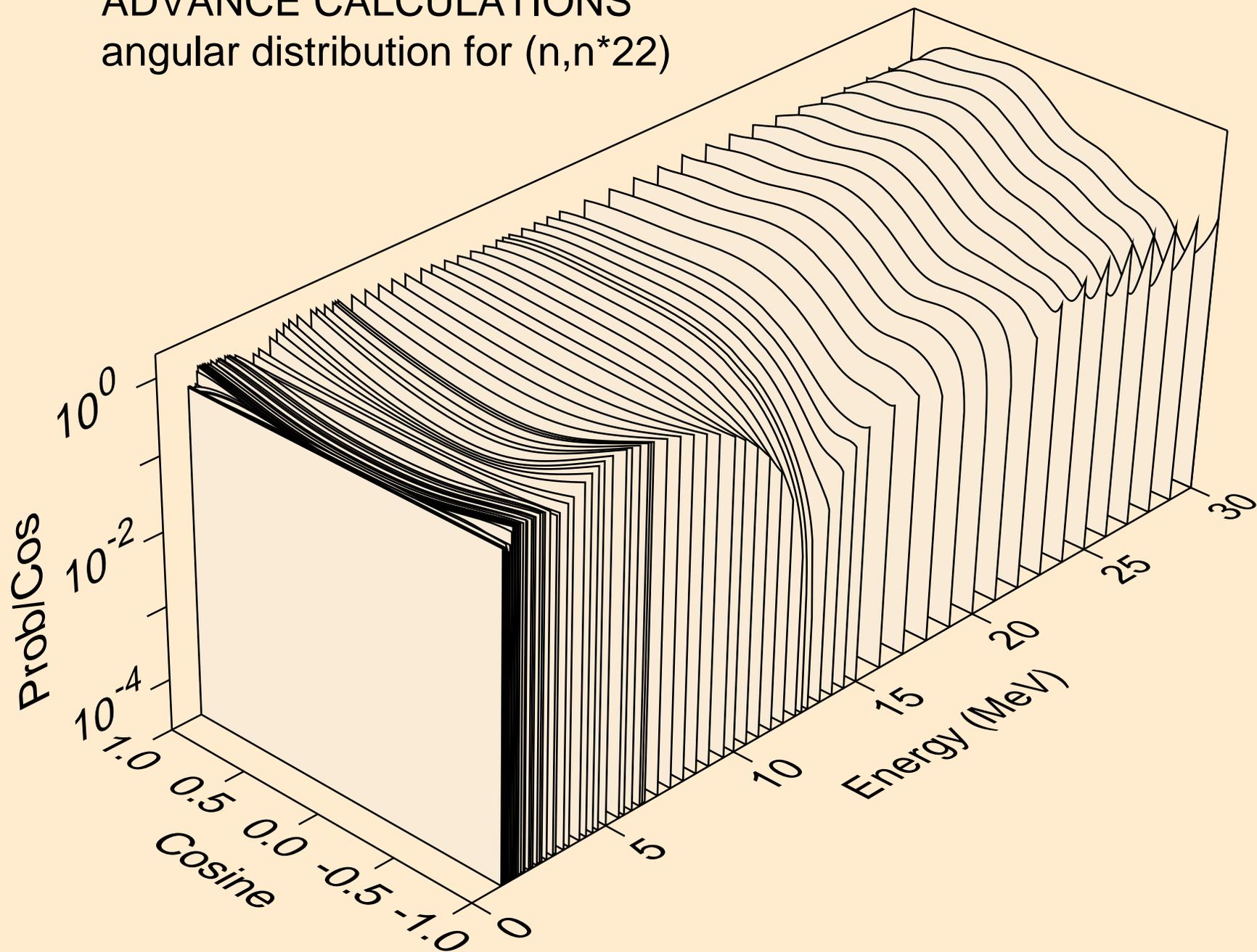


ADVANCE CALCULATIONS

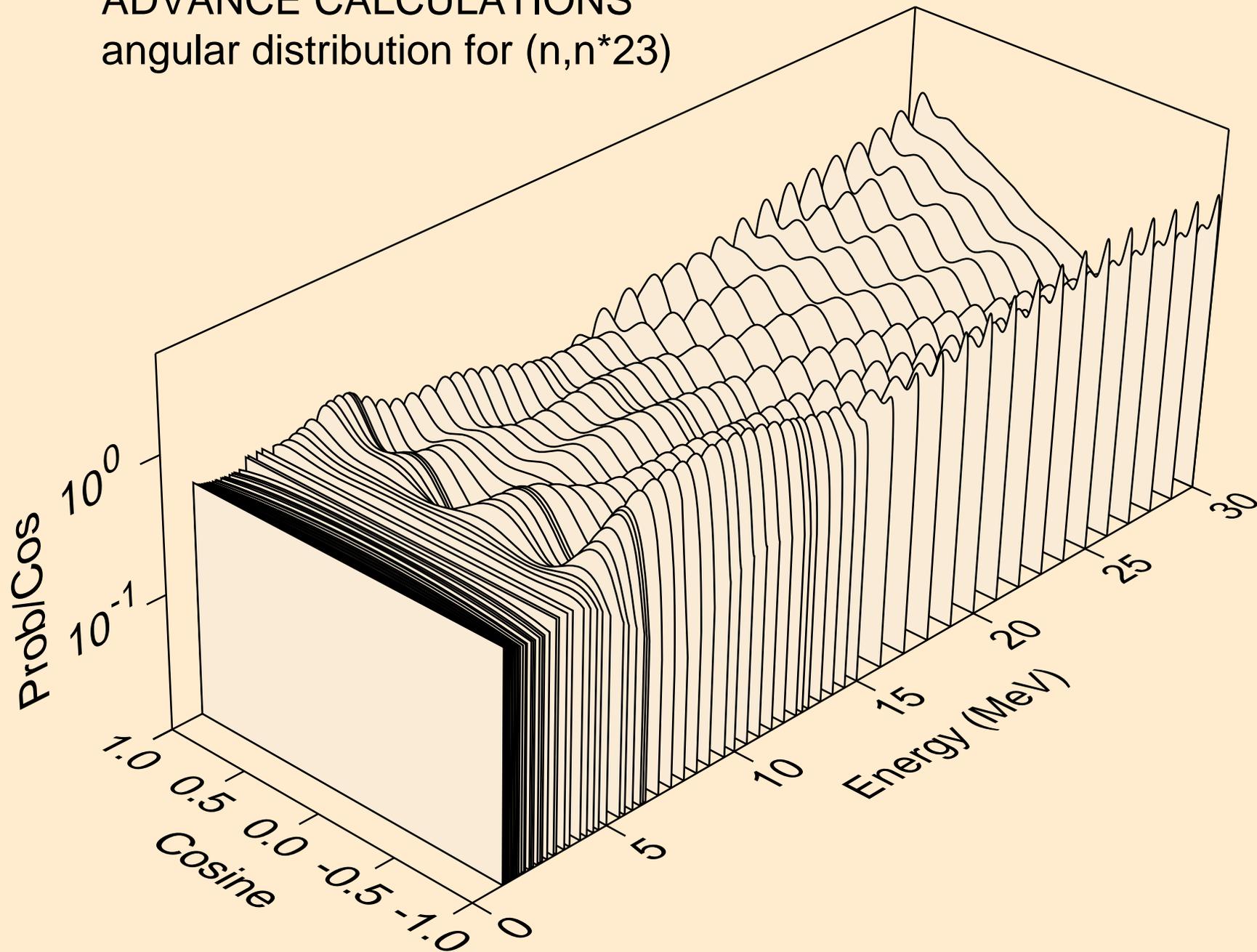
angular distribution for (n,n*21)



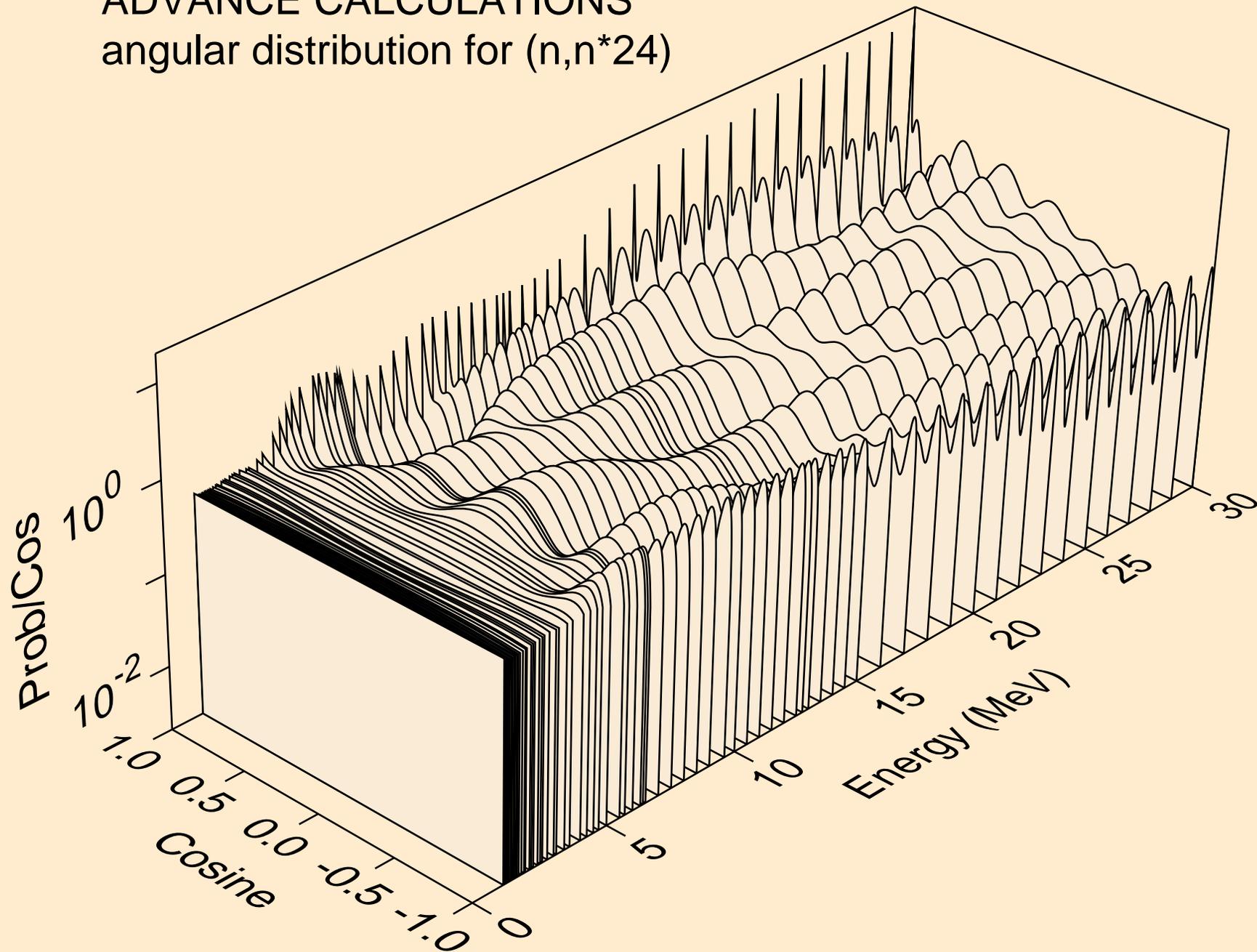
ADVANCE CALCULATIONS
angular distribution for (n,n*22)



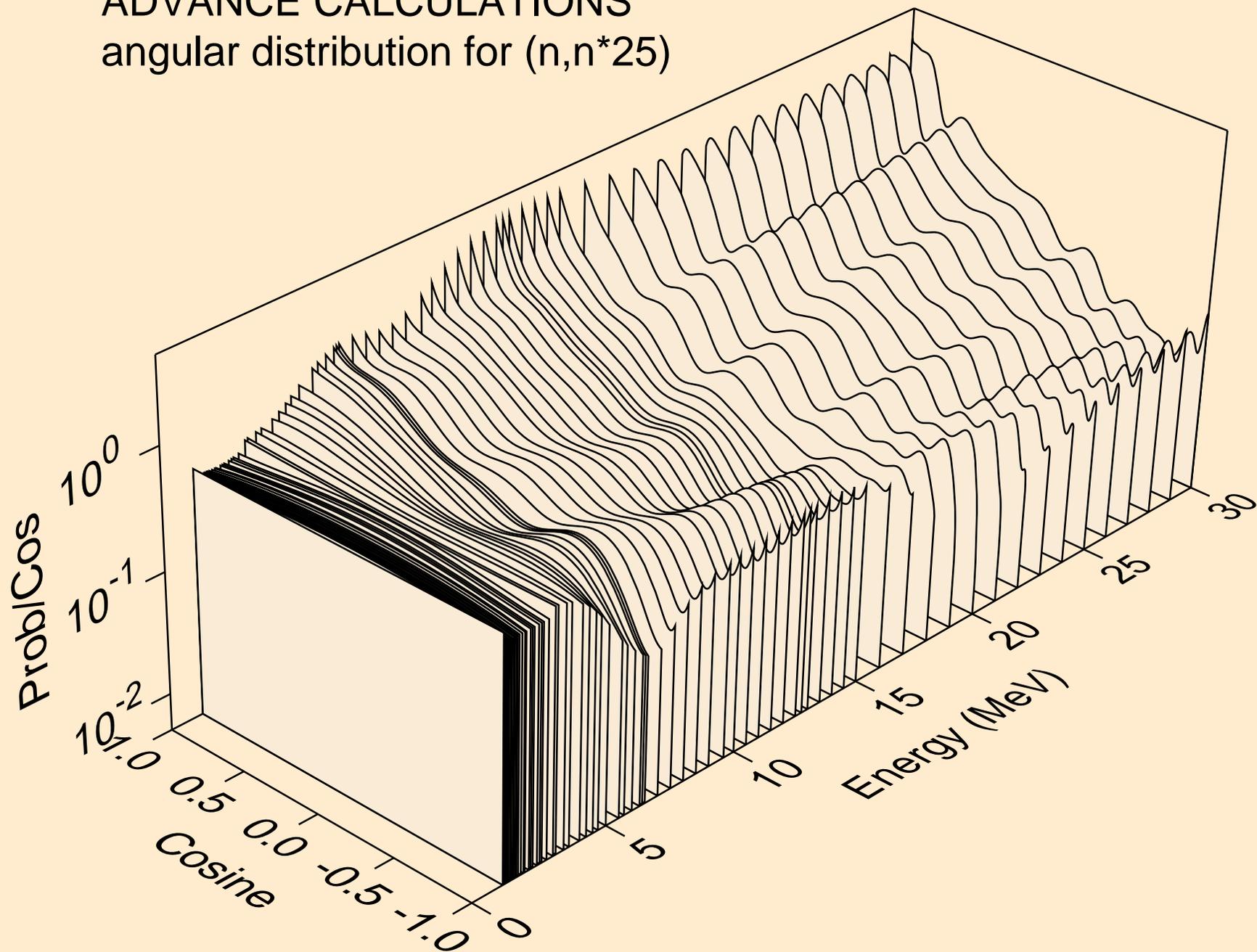
ADVANCE CALCULATIONS
angular distribution for (n,n*23)



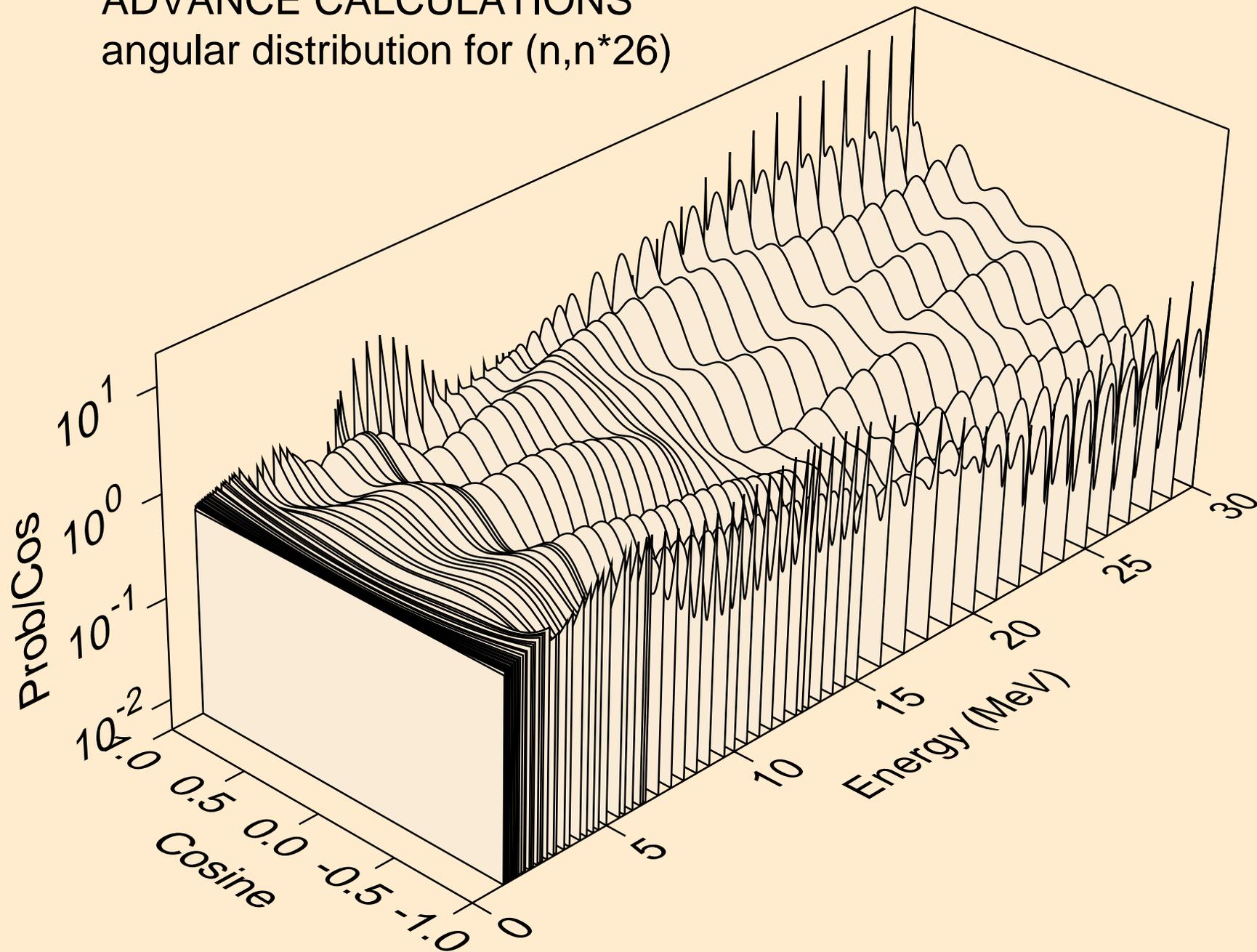
ADVANCE CALCULATIONS
angular distribution for (n,n*24)



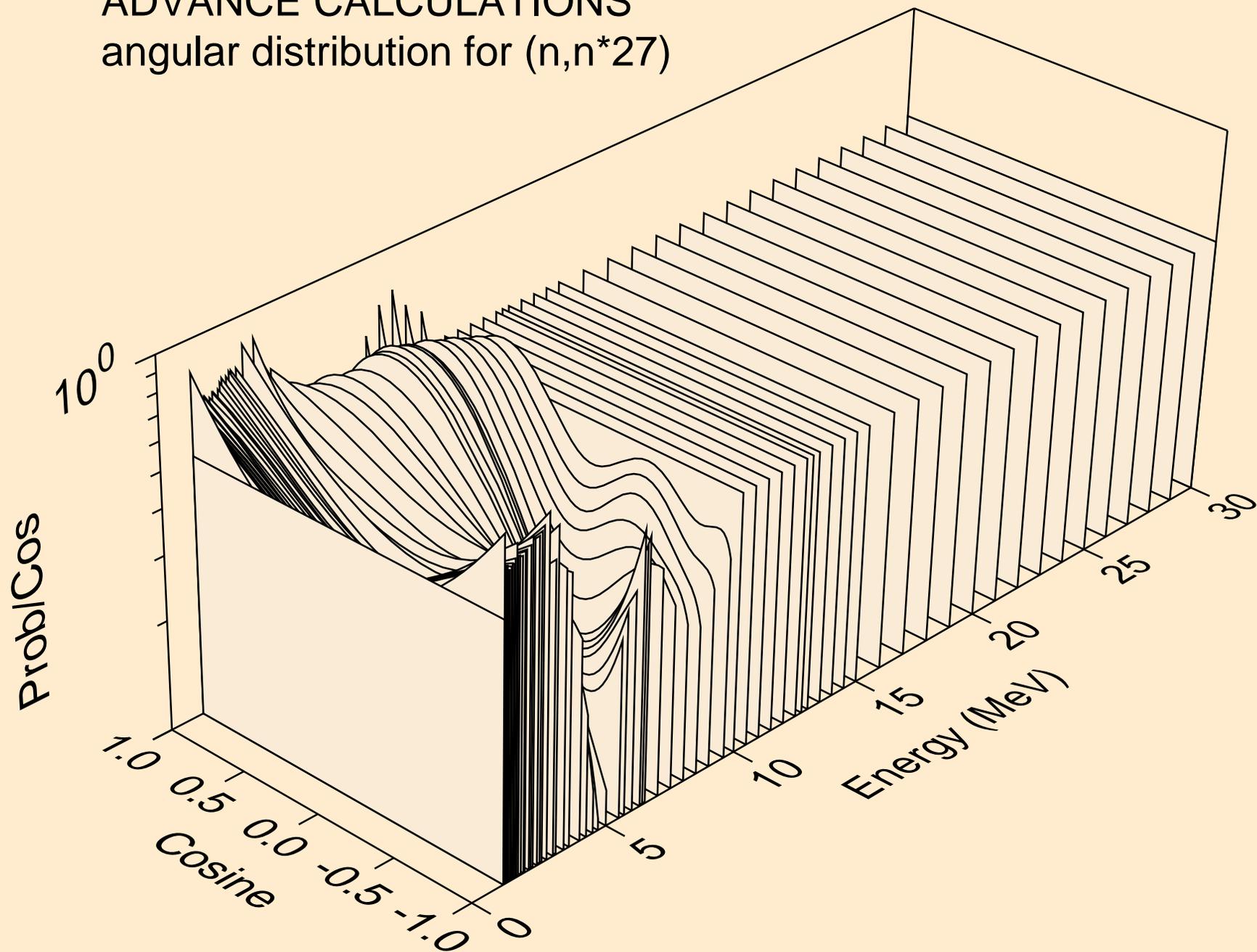
ADVANCE CALCULATIONS
angular distribution for (n,n*25)



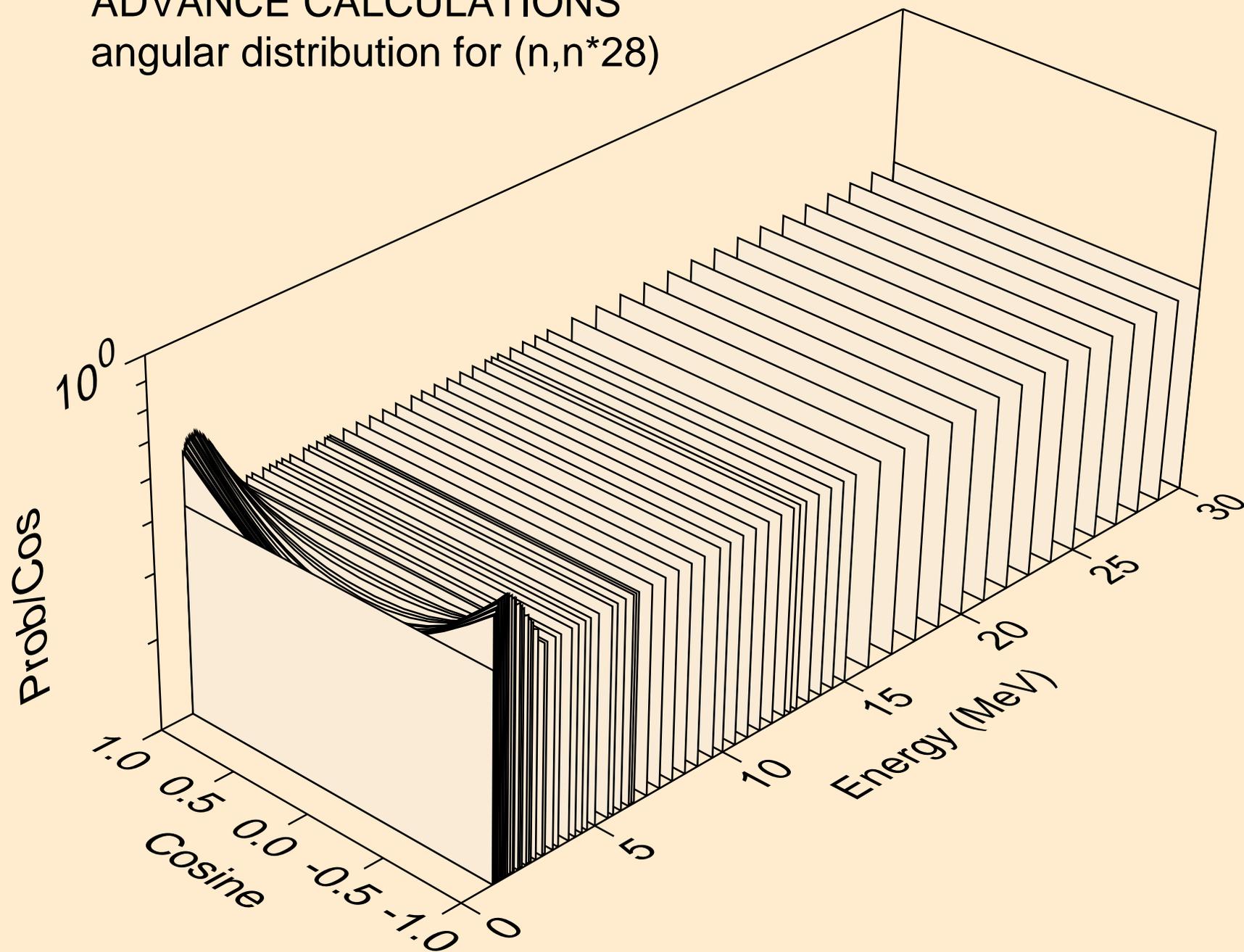
ADVANCE CALCULATIONS
angular distribution for (n,n*26)



ADVANCE CALCULATIONS
angular distribution for (n,n*27)

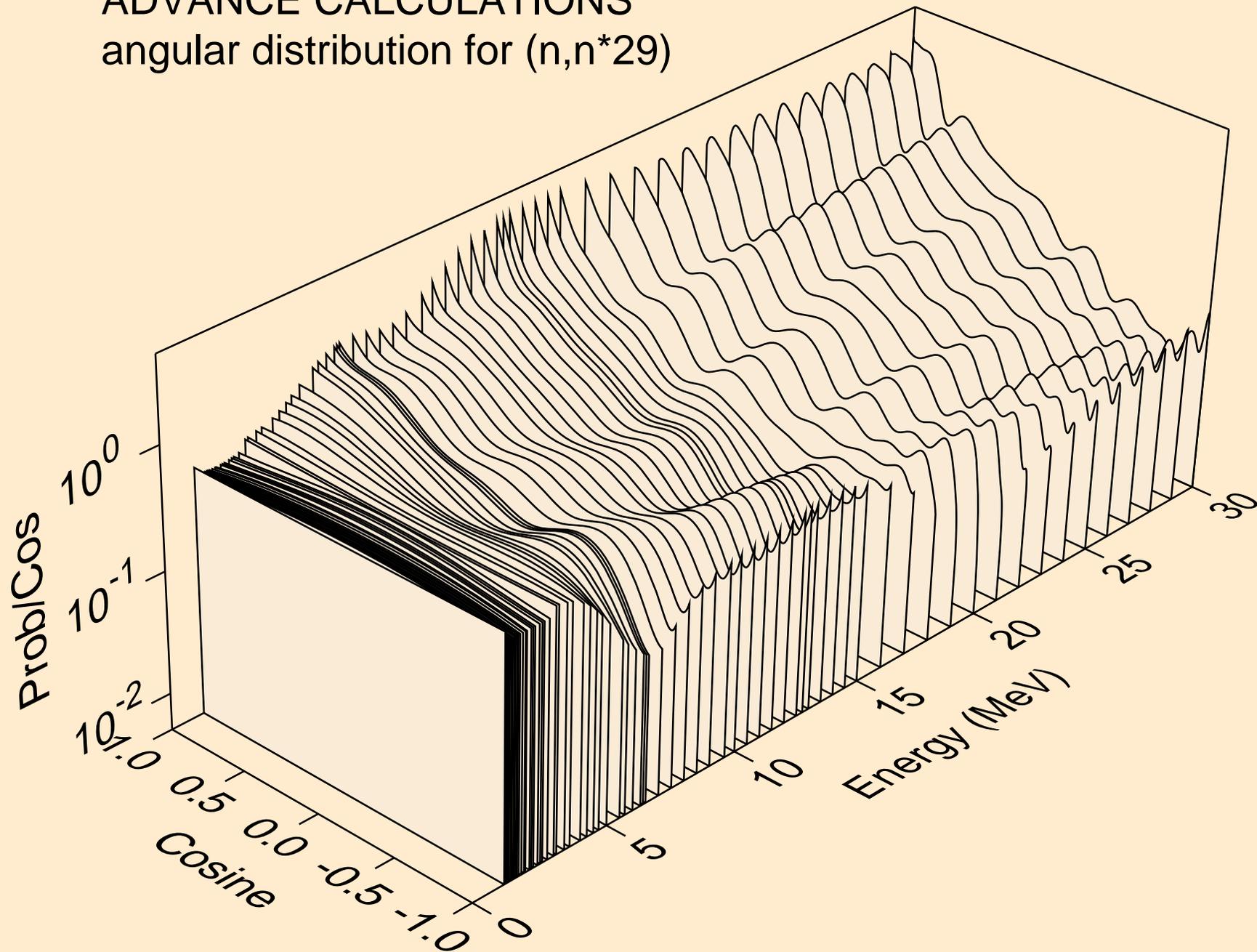


ADVANCE CALCULATIONS
angular distribution for (n,n*28)

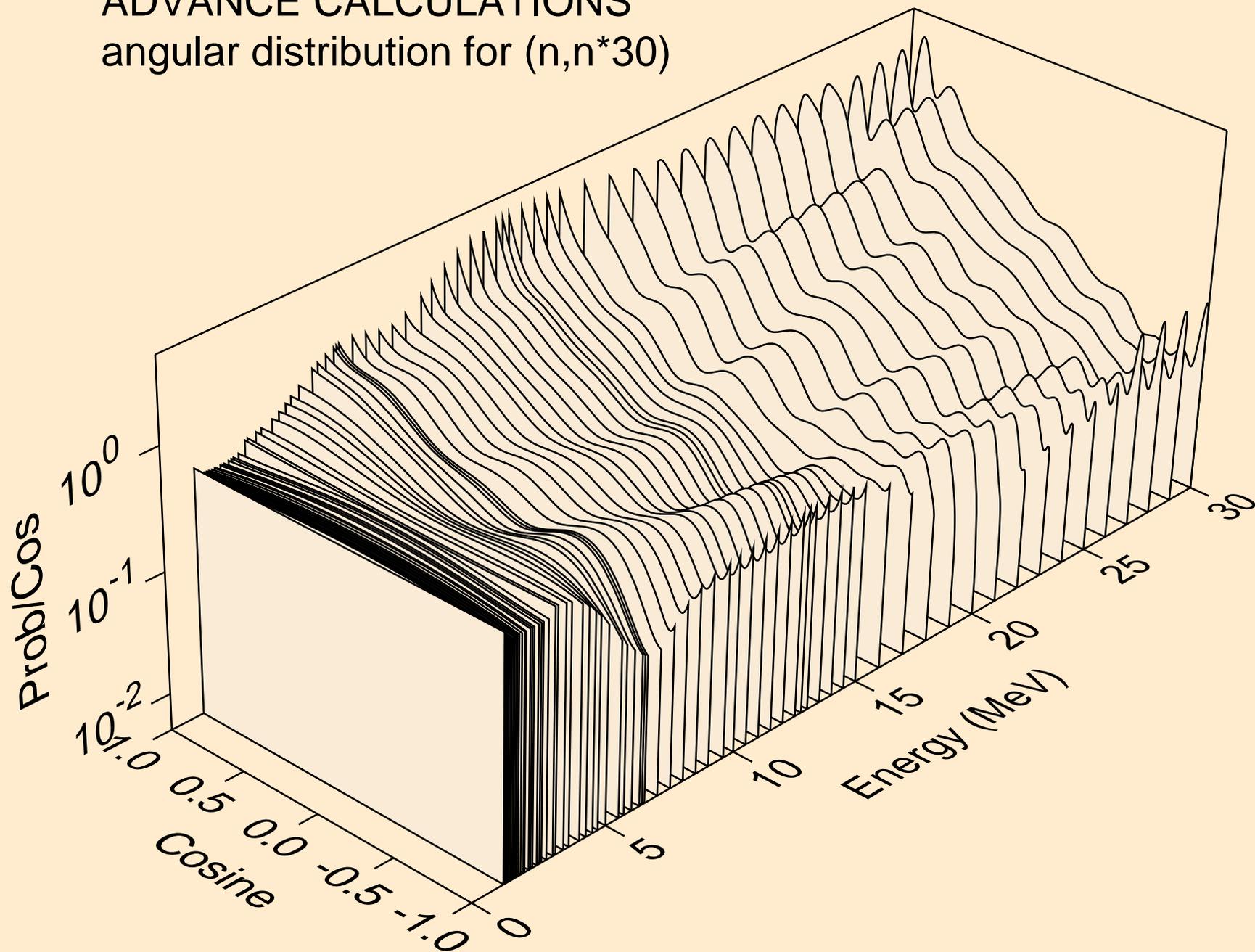


ADVANCE CALCULATIONS

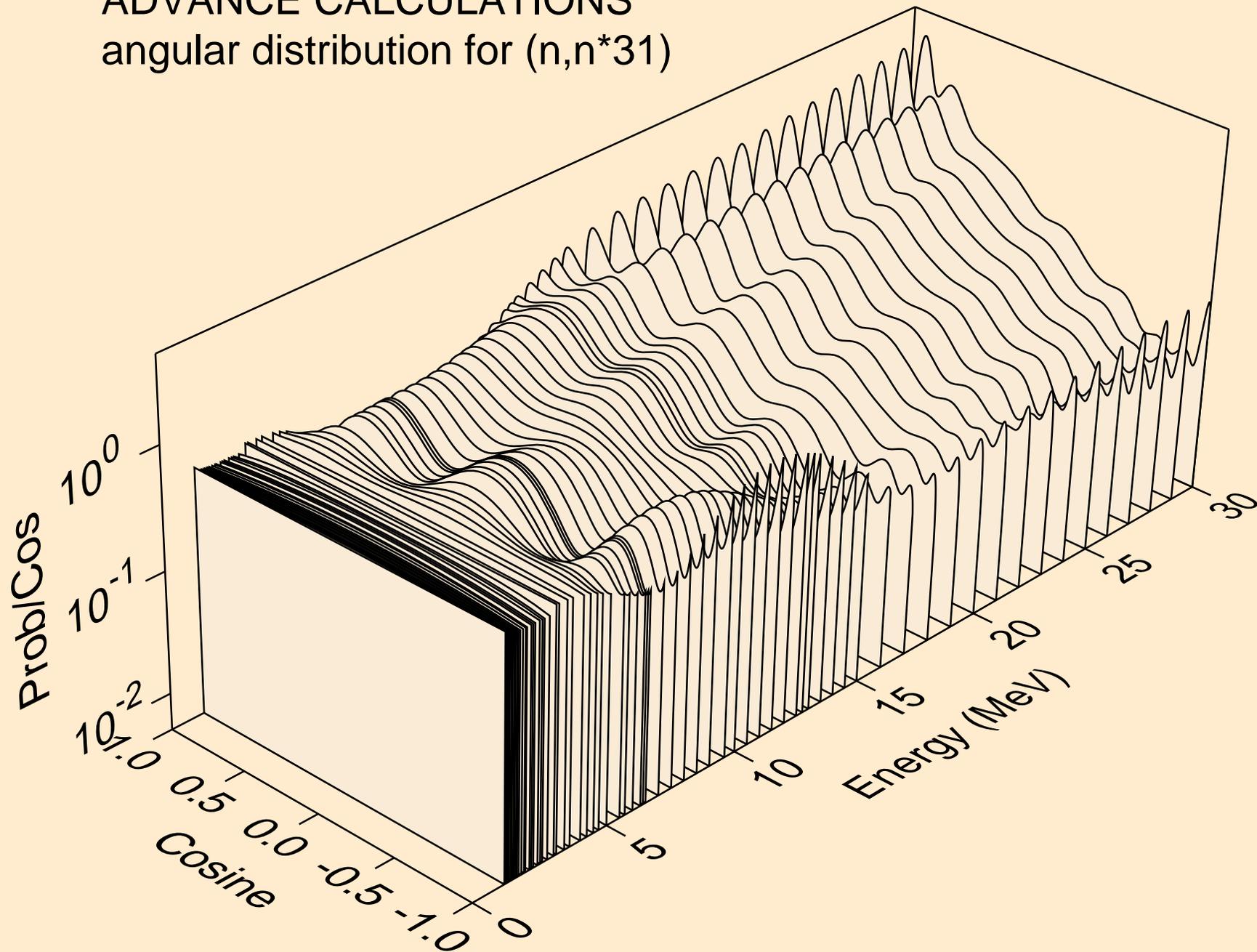
angular distribution for (n,n*29)



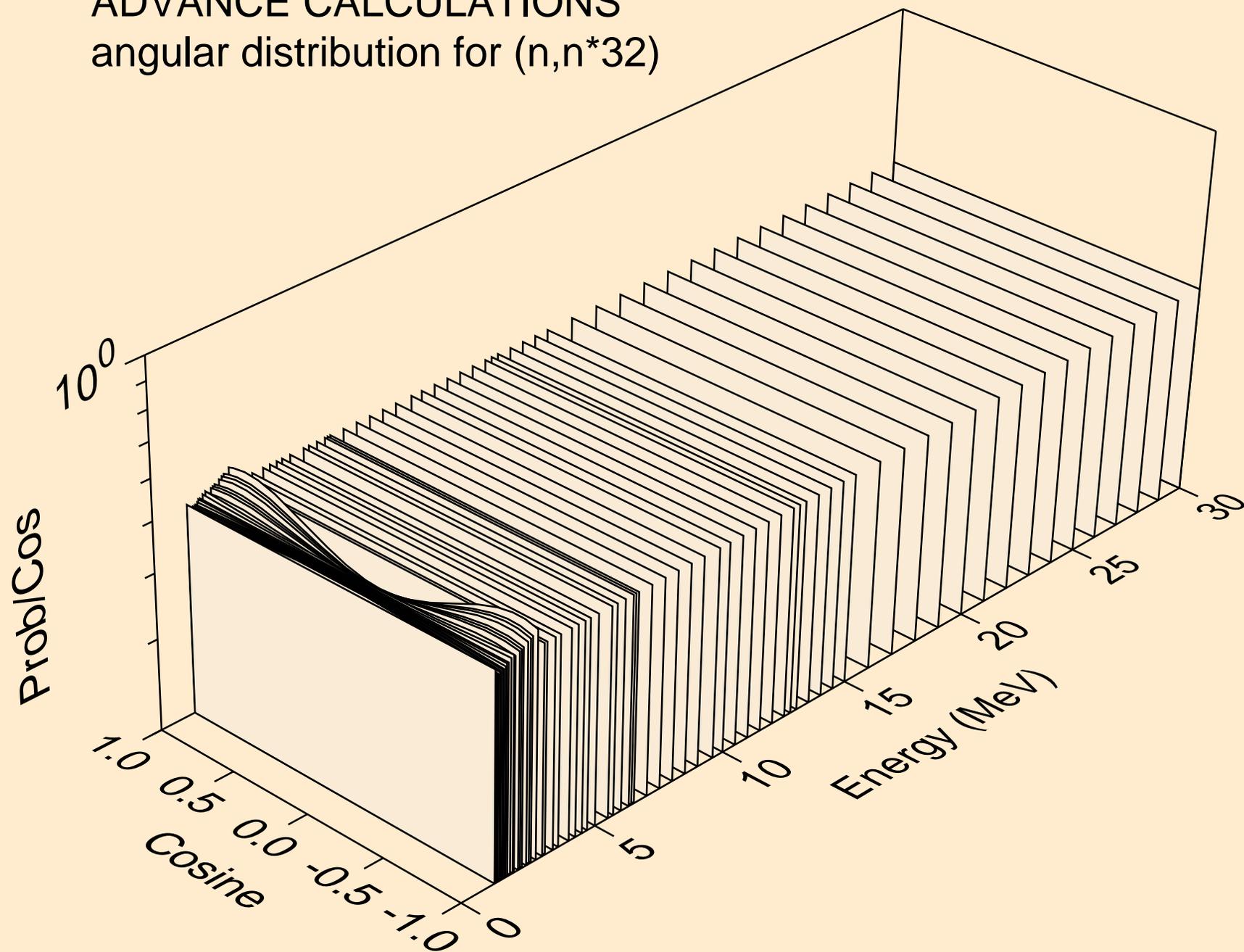
ADVANCE CALCULATIONS
angular distribution for (n,n*30)



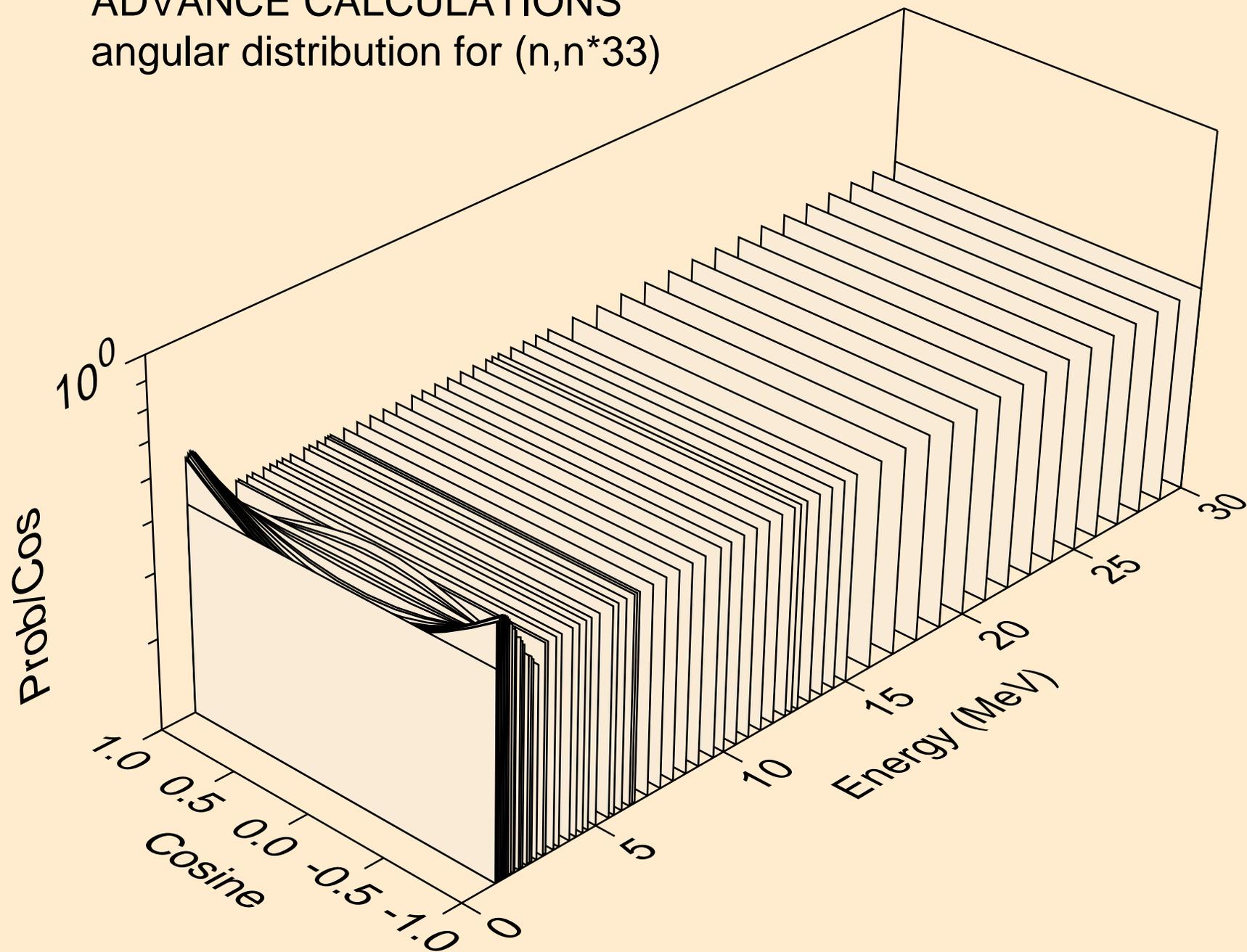
ADVANCE CALCULATIONS
angular distribution for (n,n*31)



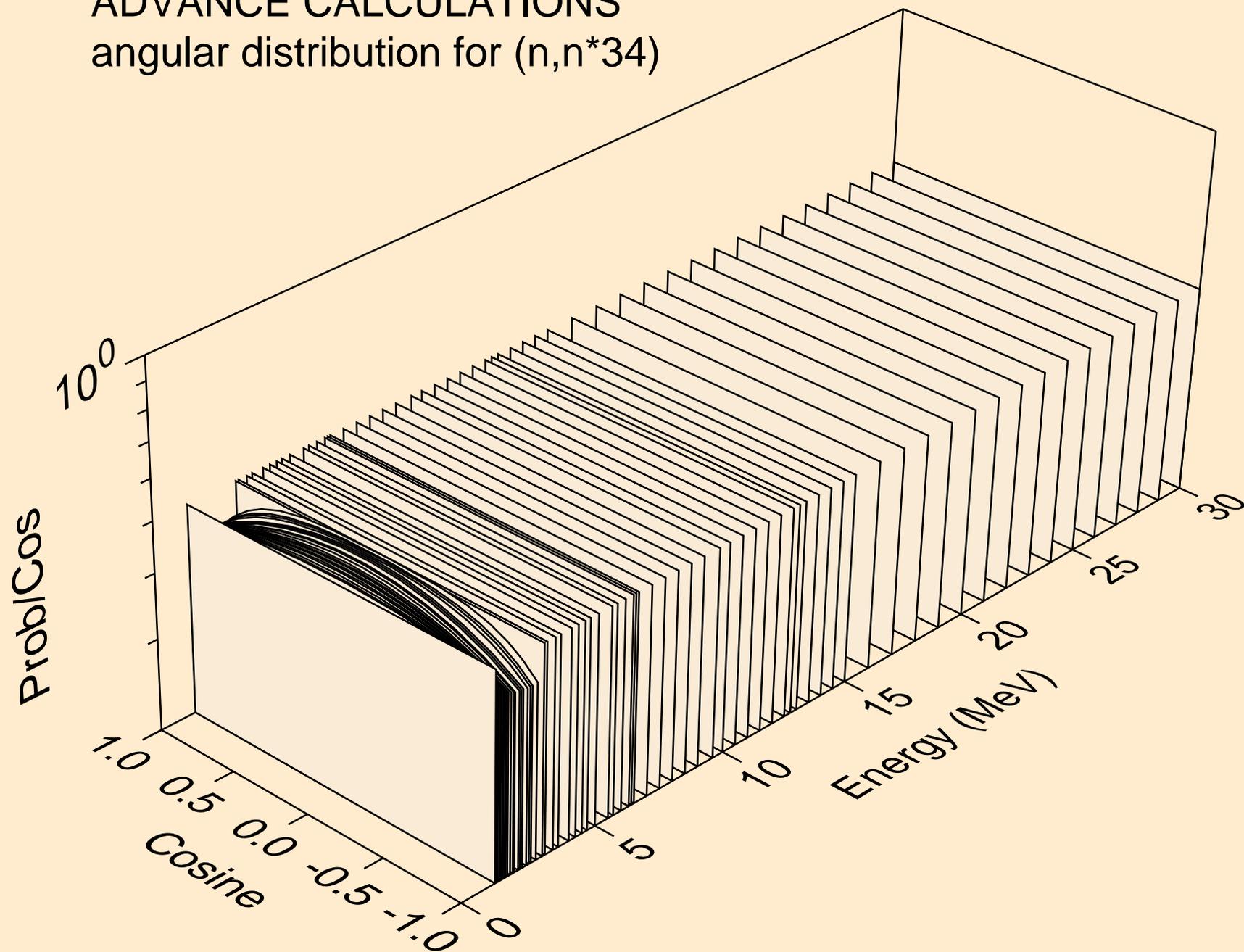
ADVANCE CALCULATIONS
angular distribution for (n,n*32)



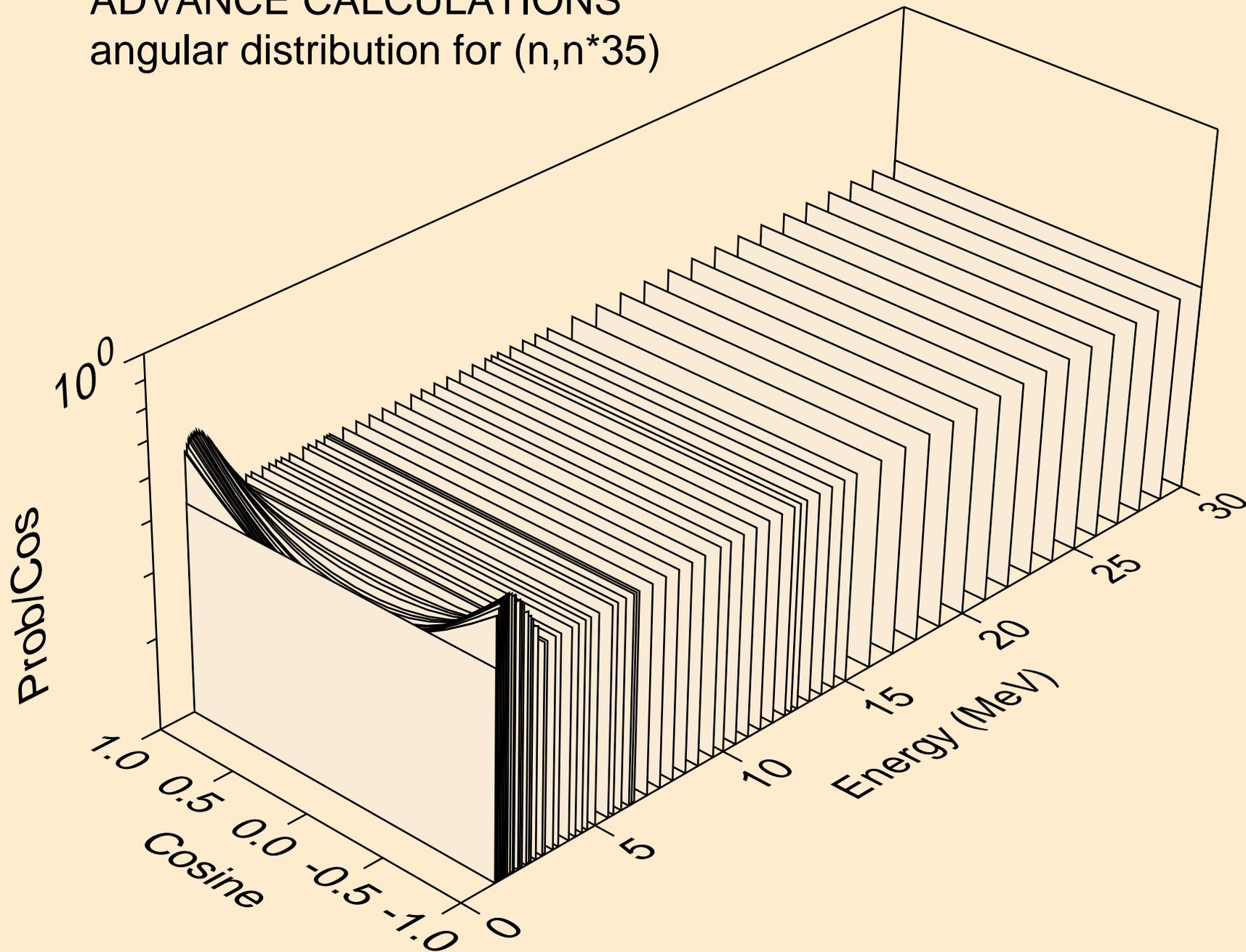
ADVANCE CALCULATIONS
angular distribution for (n,n*33)



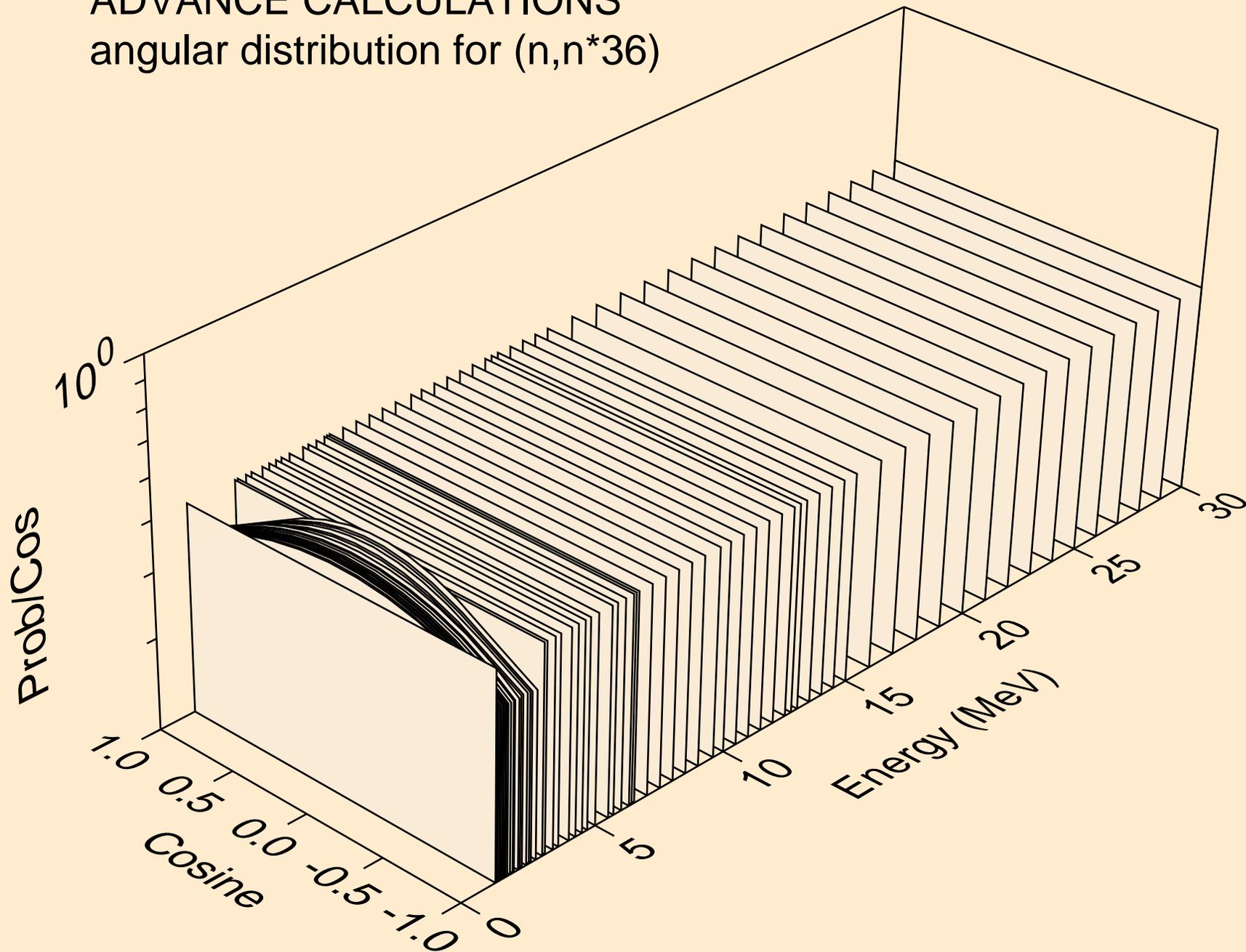
ADVANCE CALCULATIONS
angular distribution for (n,n*34)



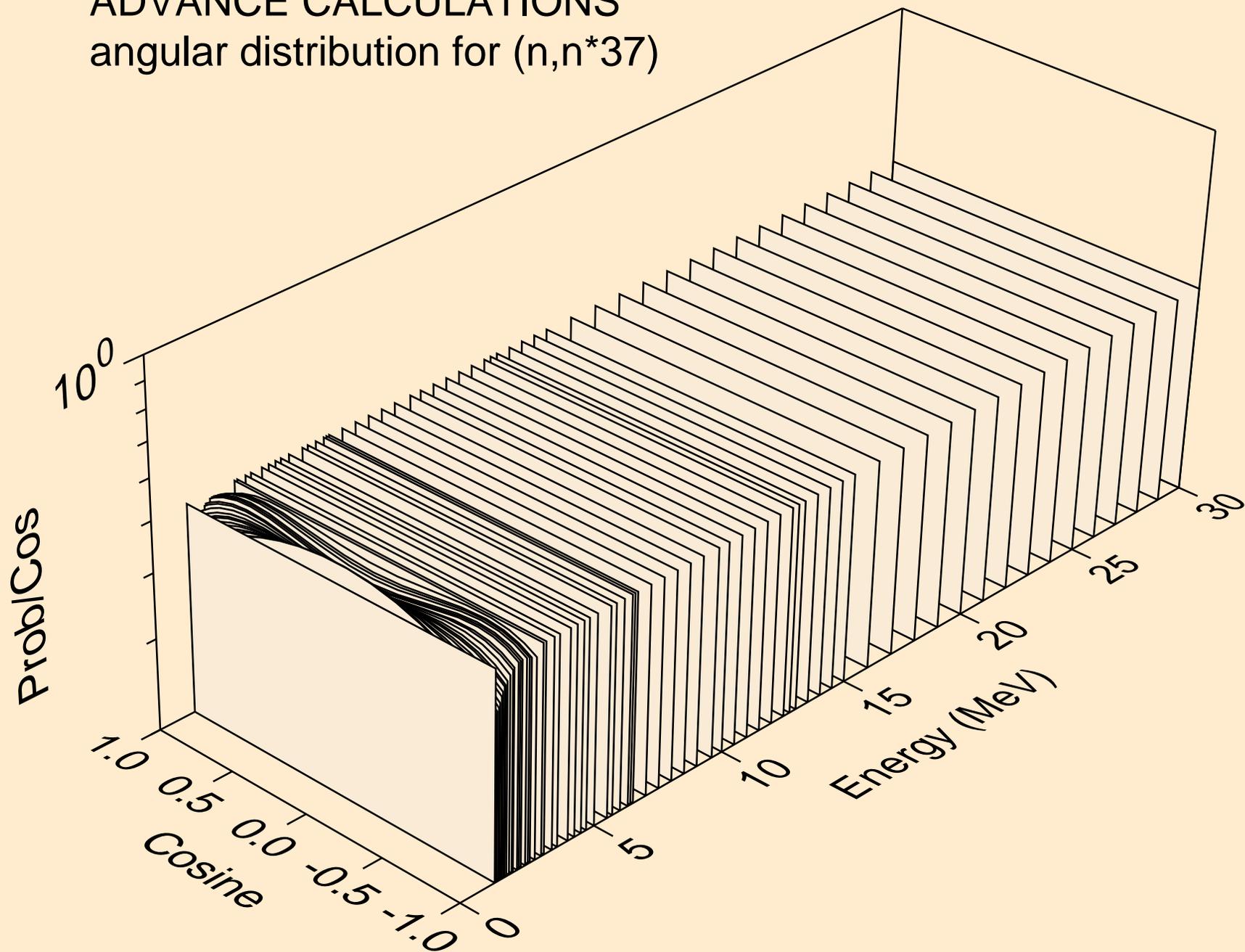
ADVANCE CALCULATIONS
angular distribution for (n,n*35)



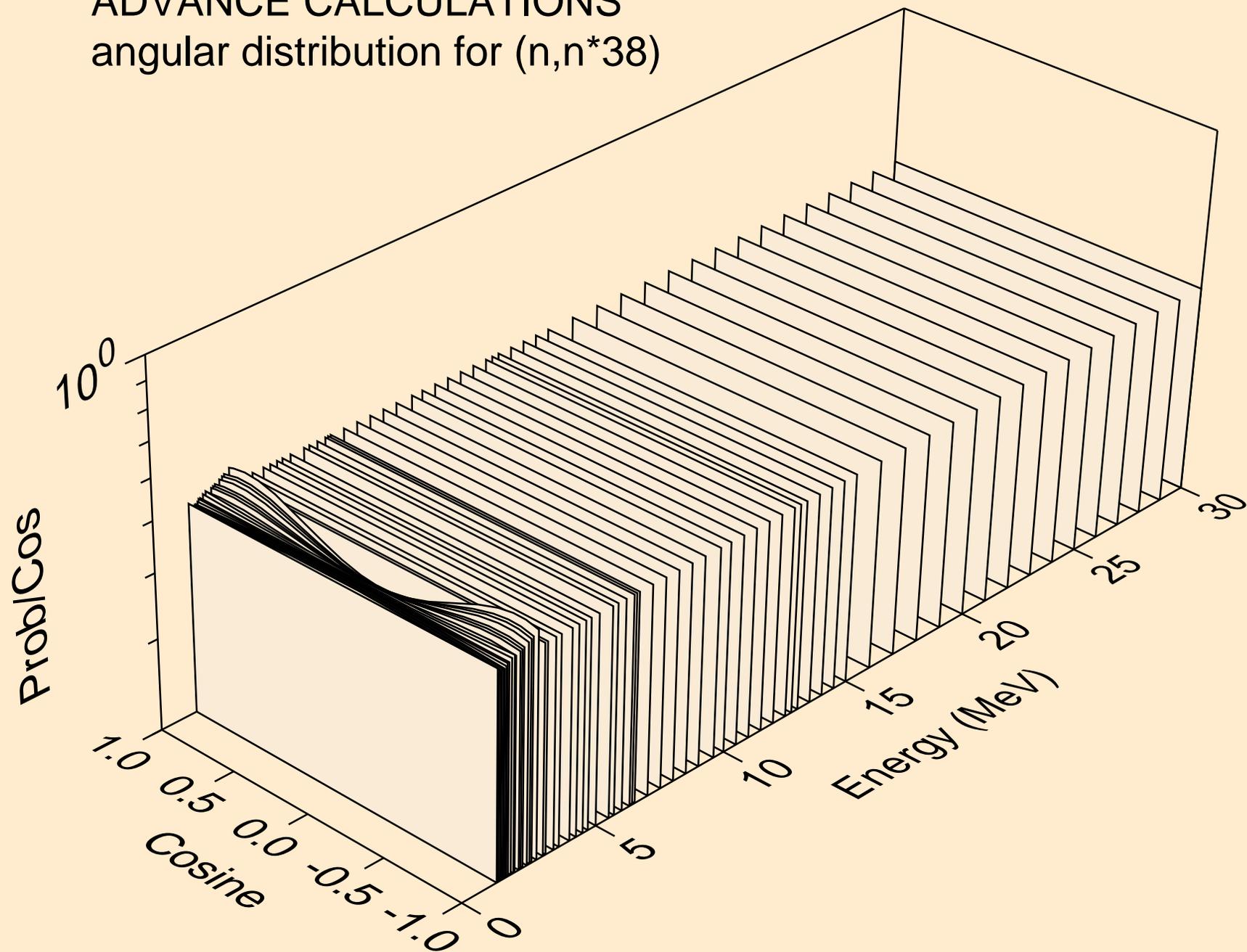
ADVANCE CALCULATIONS
angular distribution for (n,n*36)



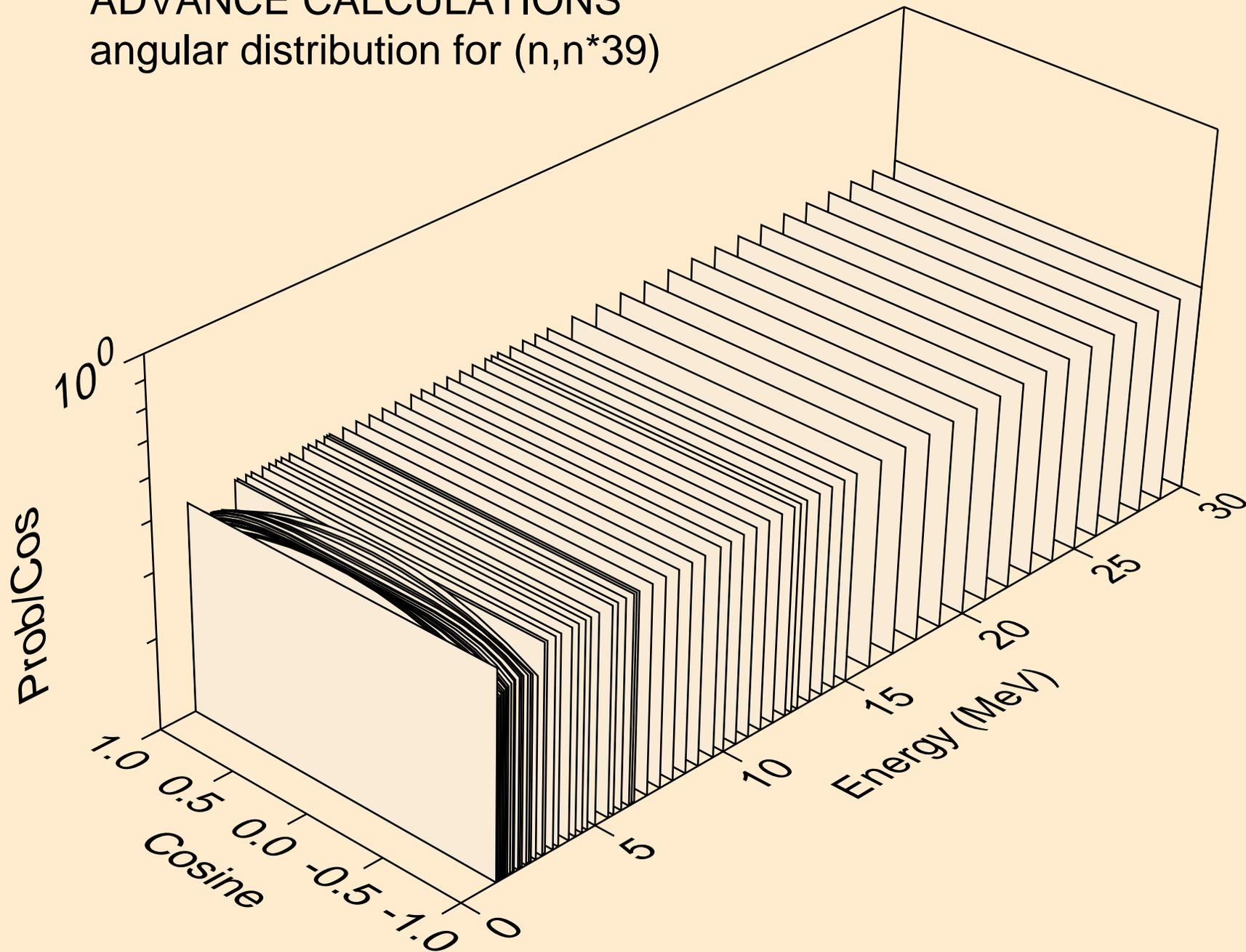
ADVANCE CALCULATIONS
angular distribution for (n,n*37)



ADVANCE CALCULATIONS
angular distribution for (n,n*38)

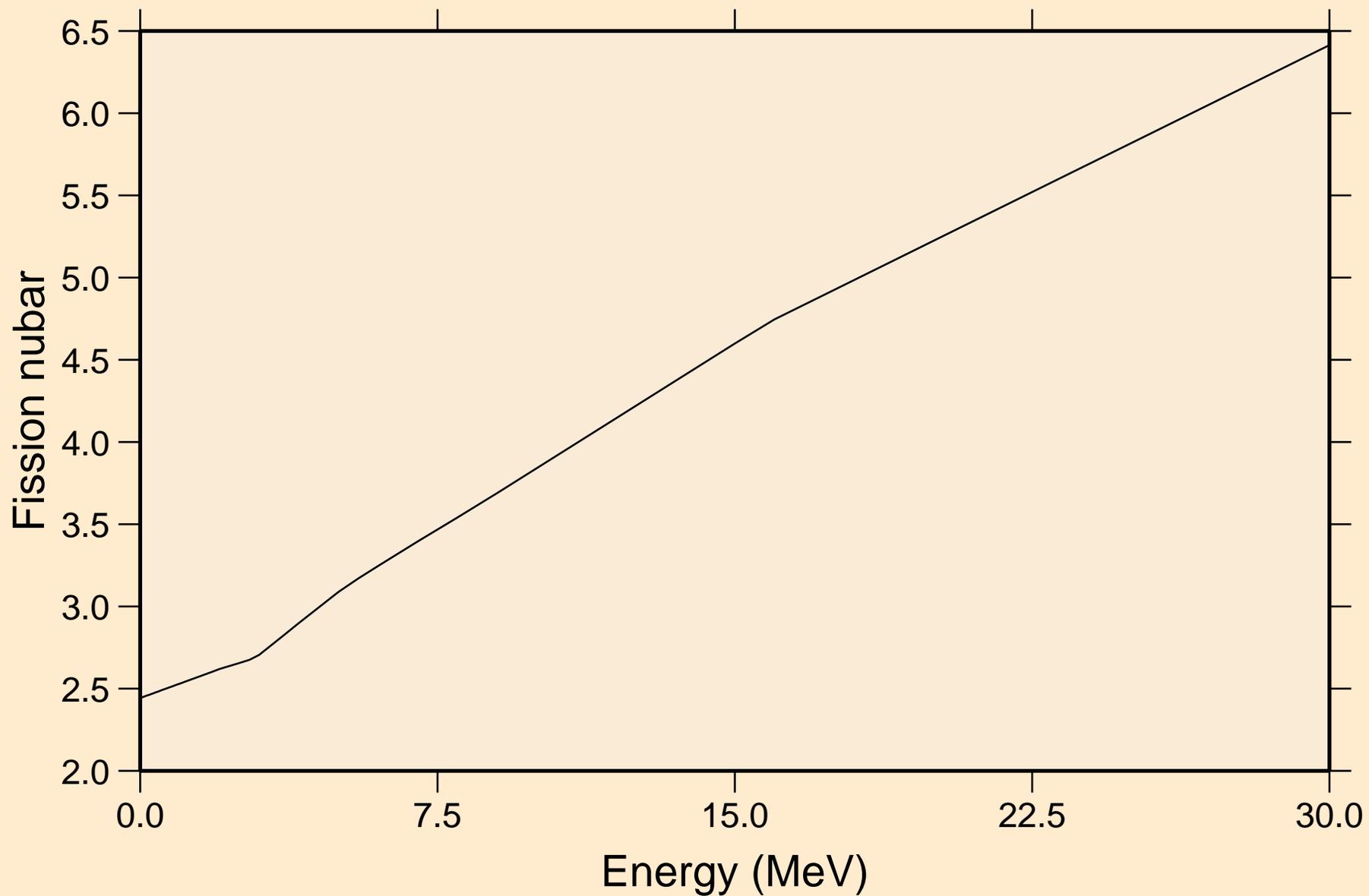


ADVANCE CALCULATIONS
angular distribution for (n,n*39)



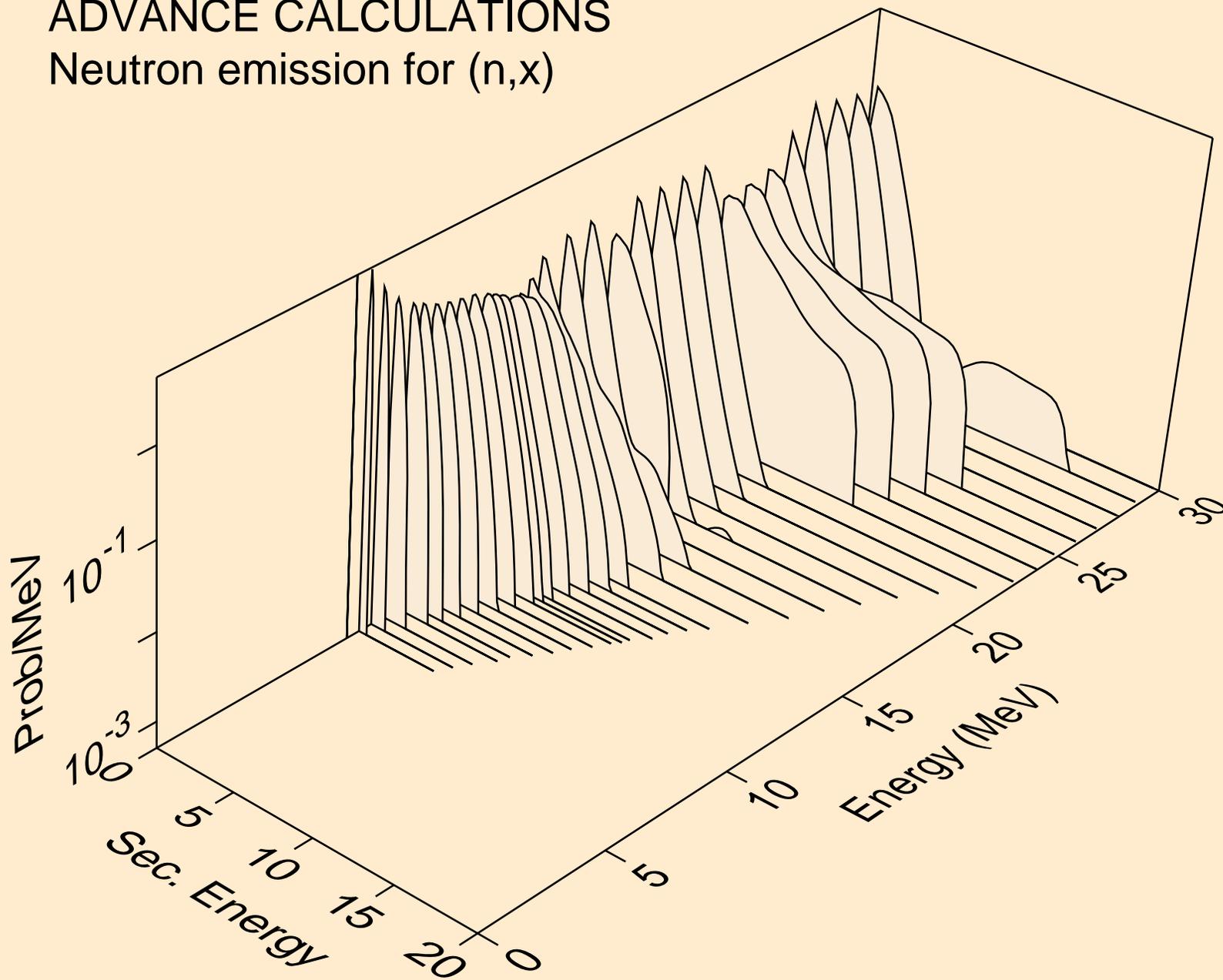
ADVANCE CALCULATIONS

Total fission nubar



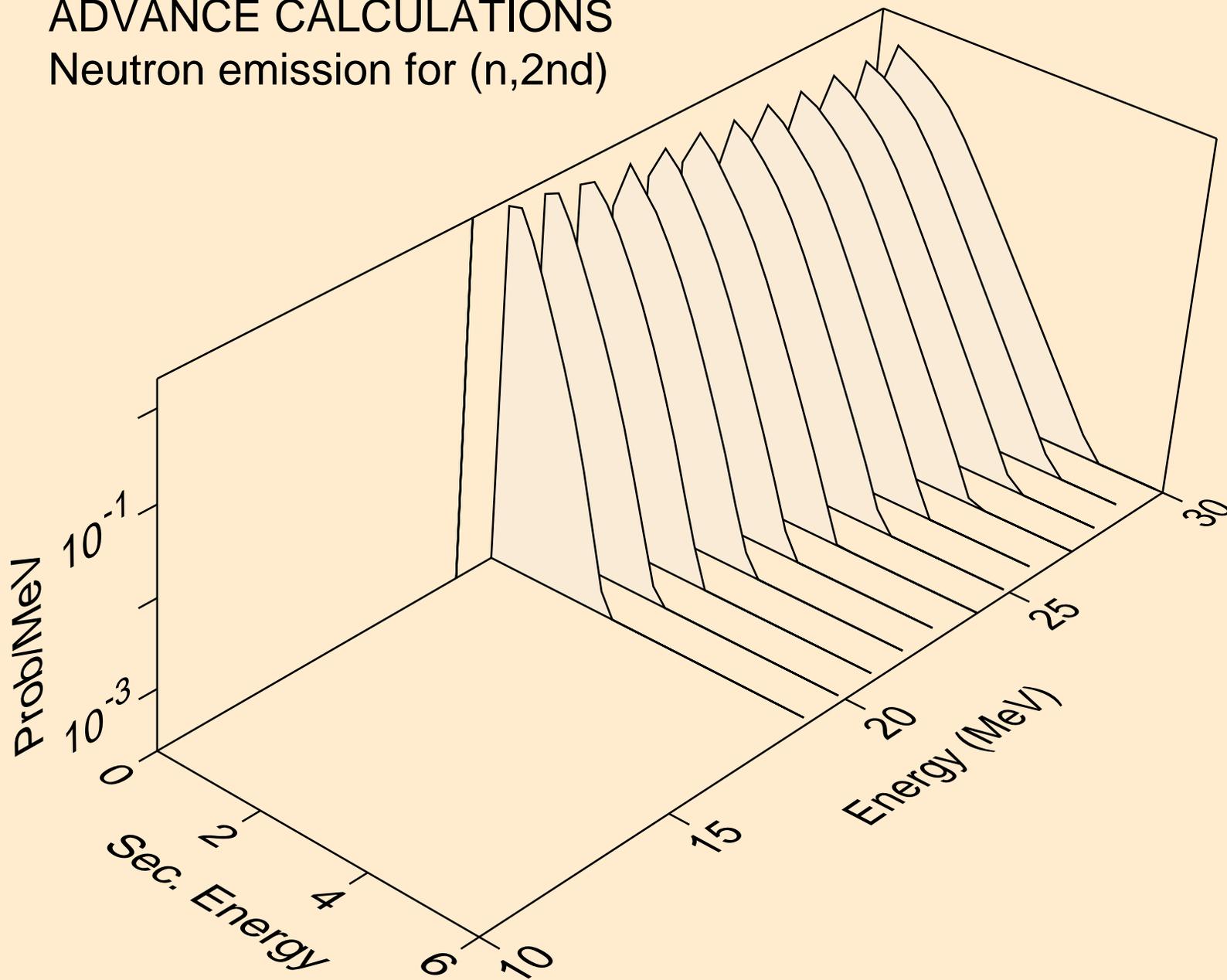
ADVANCE CALCULATIONS

Neutron emission for (n,x)



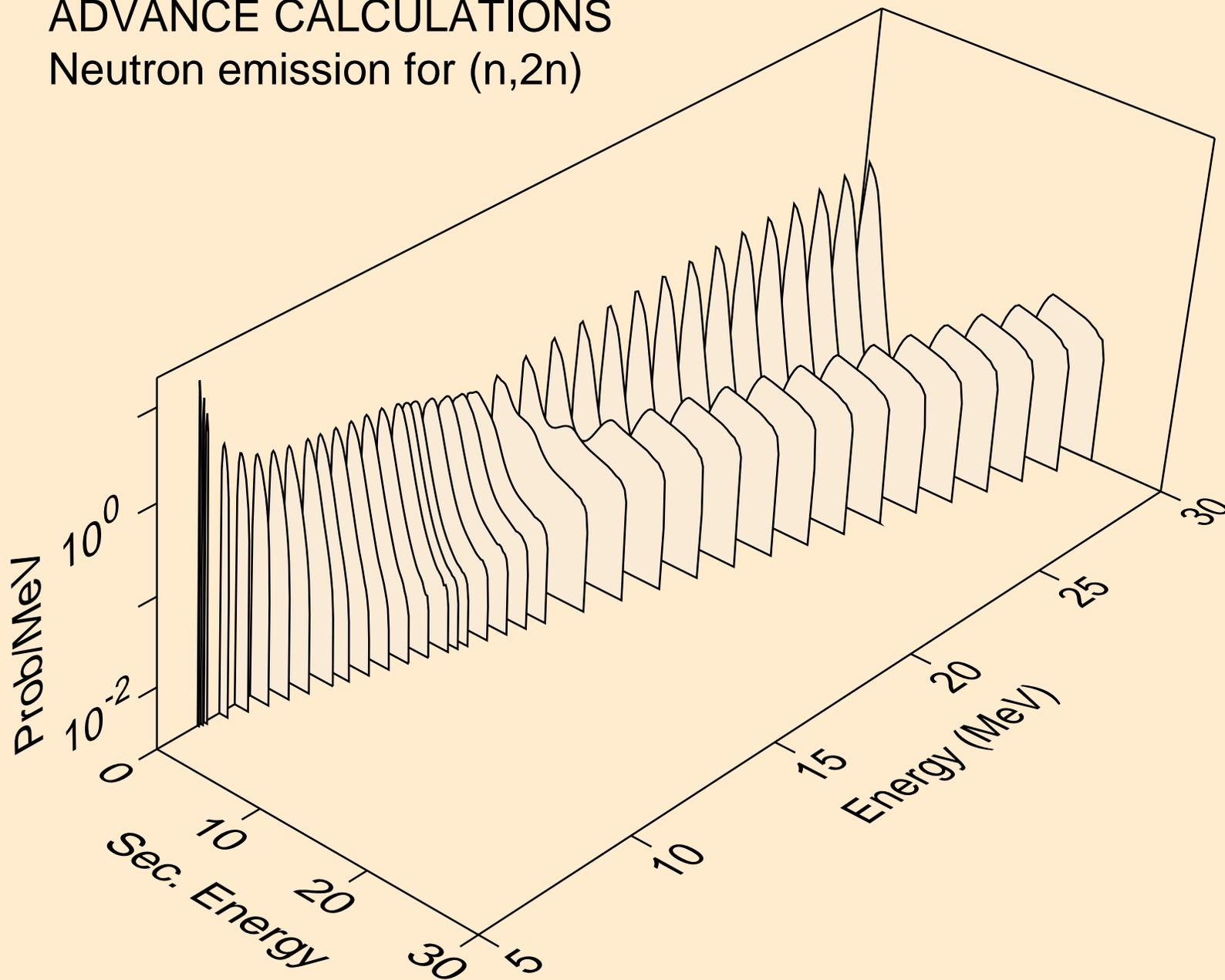
ADVANCE CALCULATIONS

Neutron emission for (n,2nd)



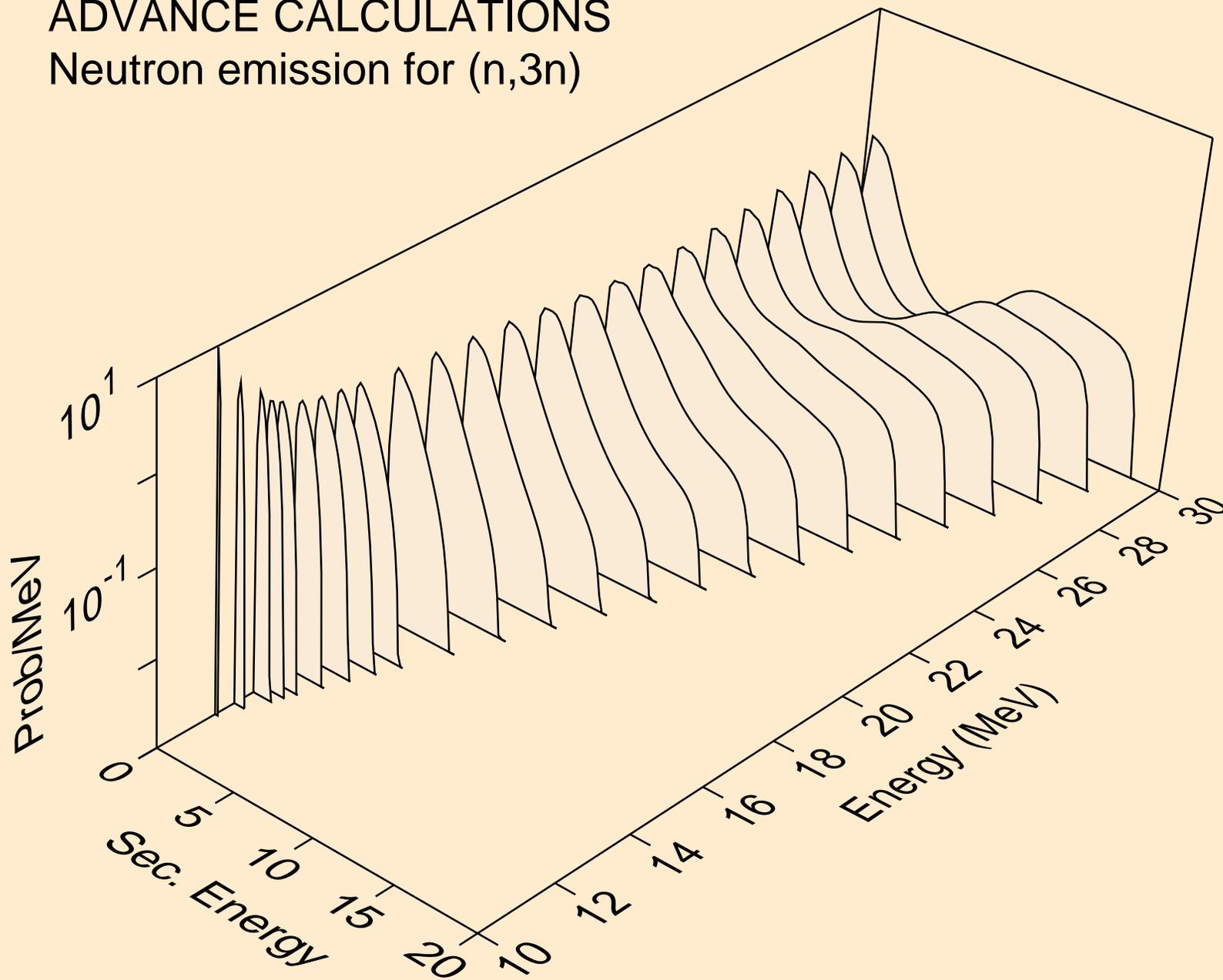
ADVANCE CALCULATIONS

Neutron emission for (n,2n)



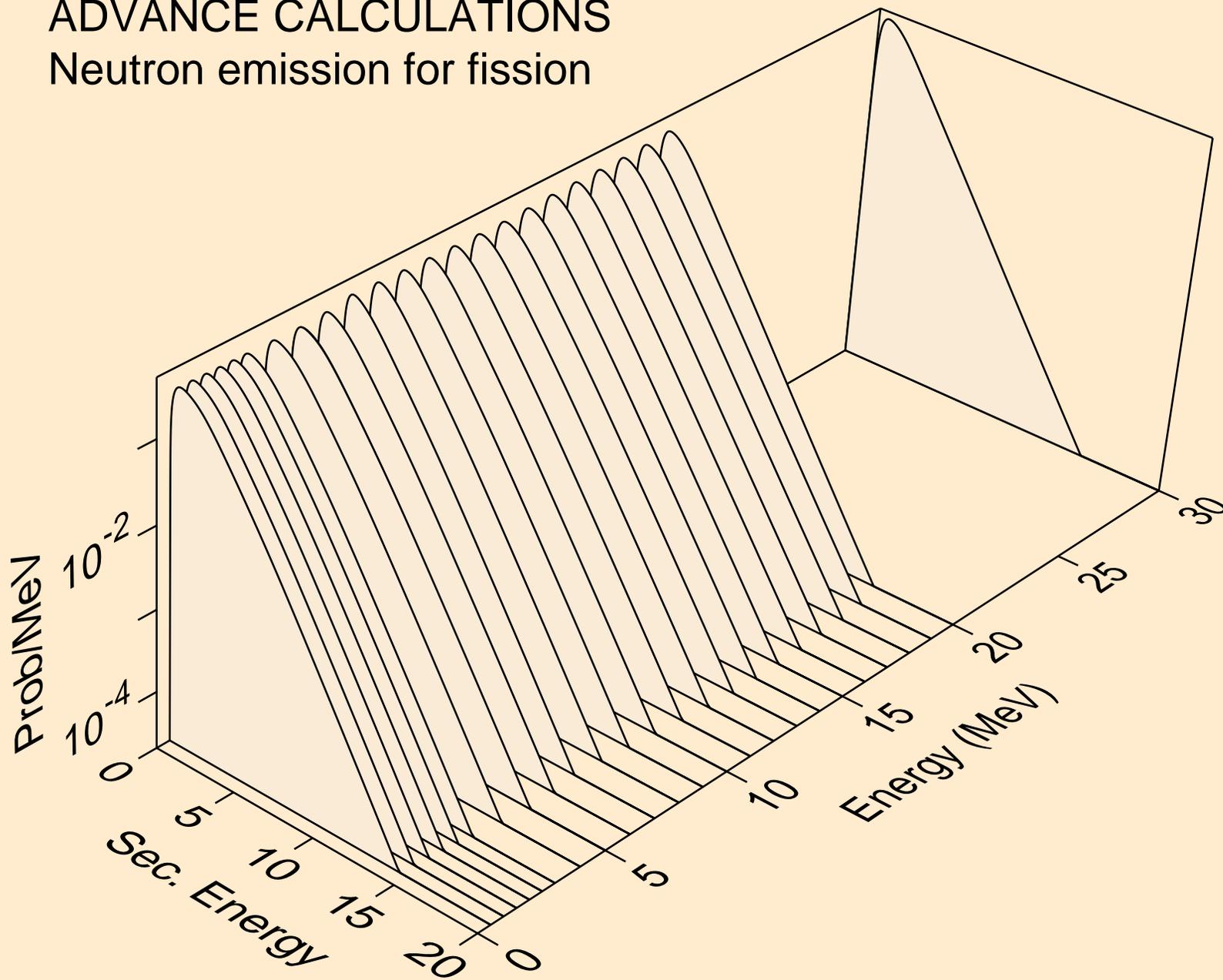
ADVANCE CALCULATIONS

Neutron emission for (n,3n)



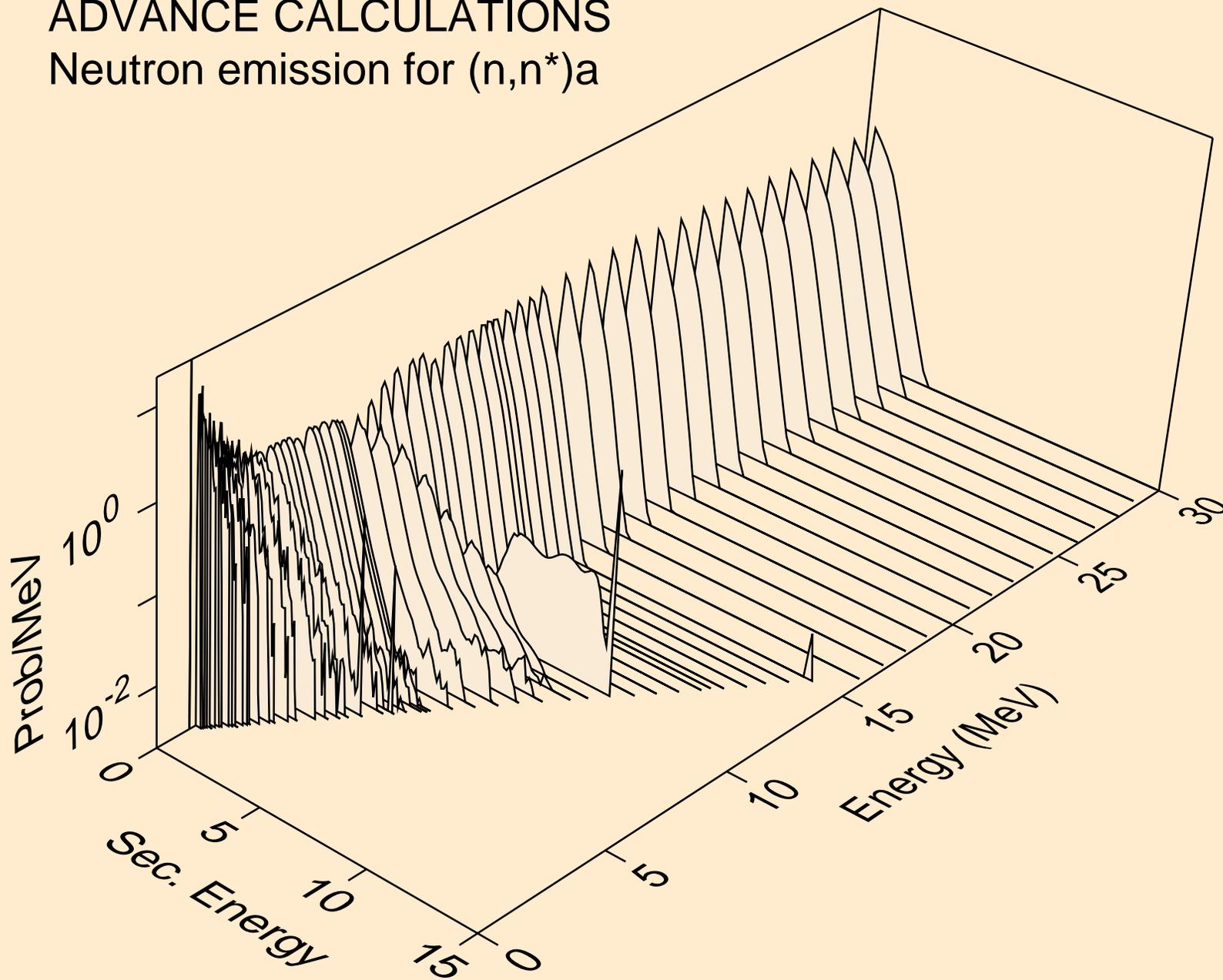
ADVANCE CALCULATIONS

Neutron emission for fission



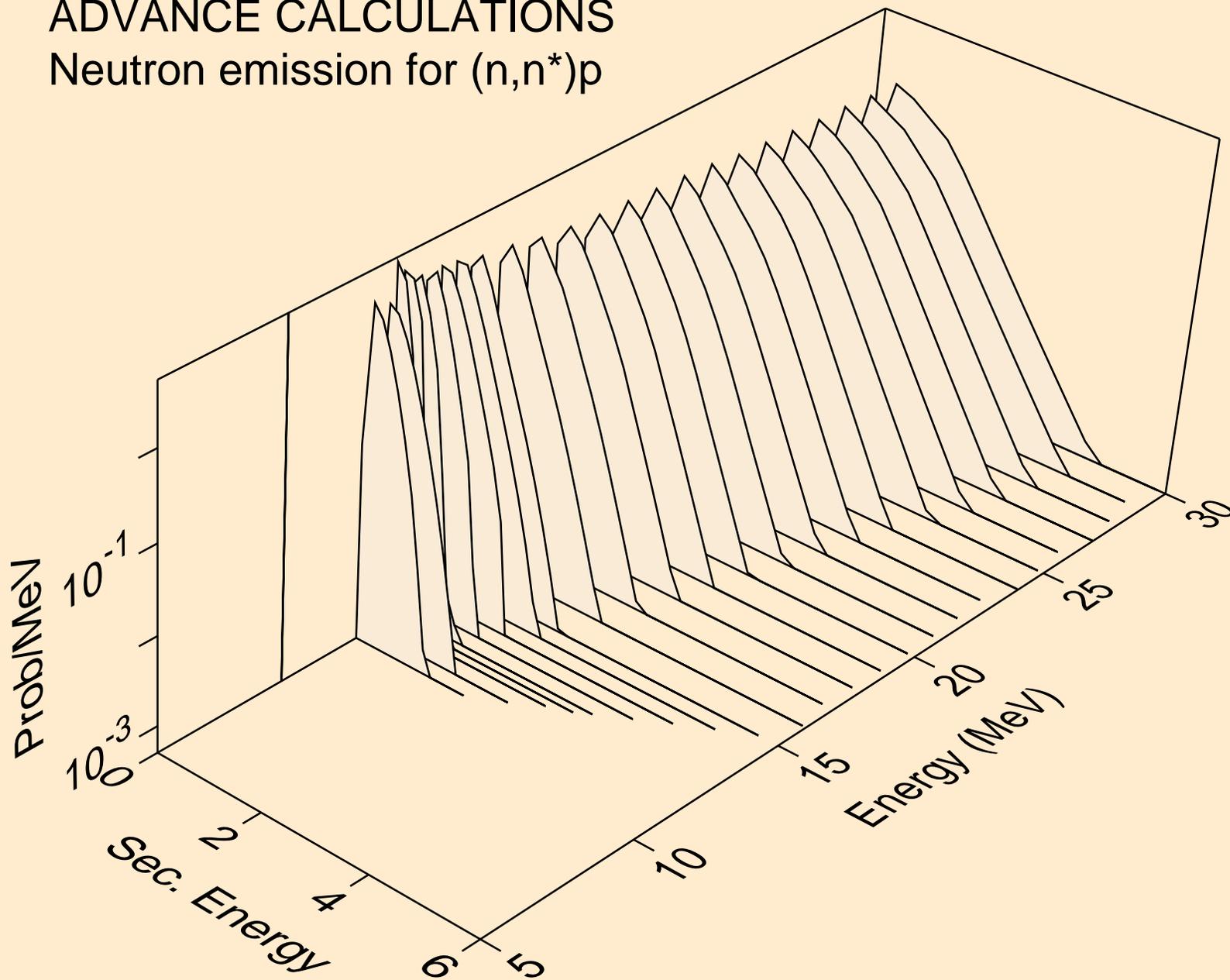
ADVANCE CALCULATIONS

Neutron emission for $(n,n^*)_a$



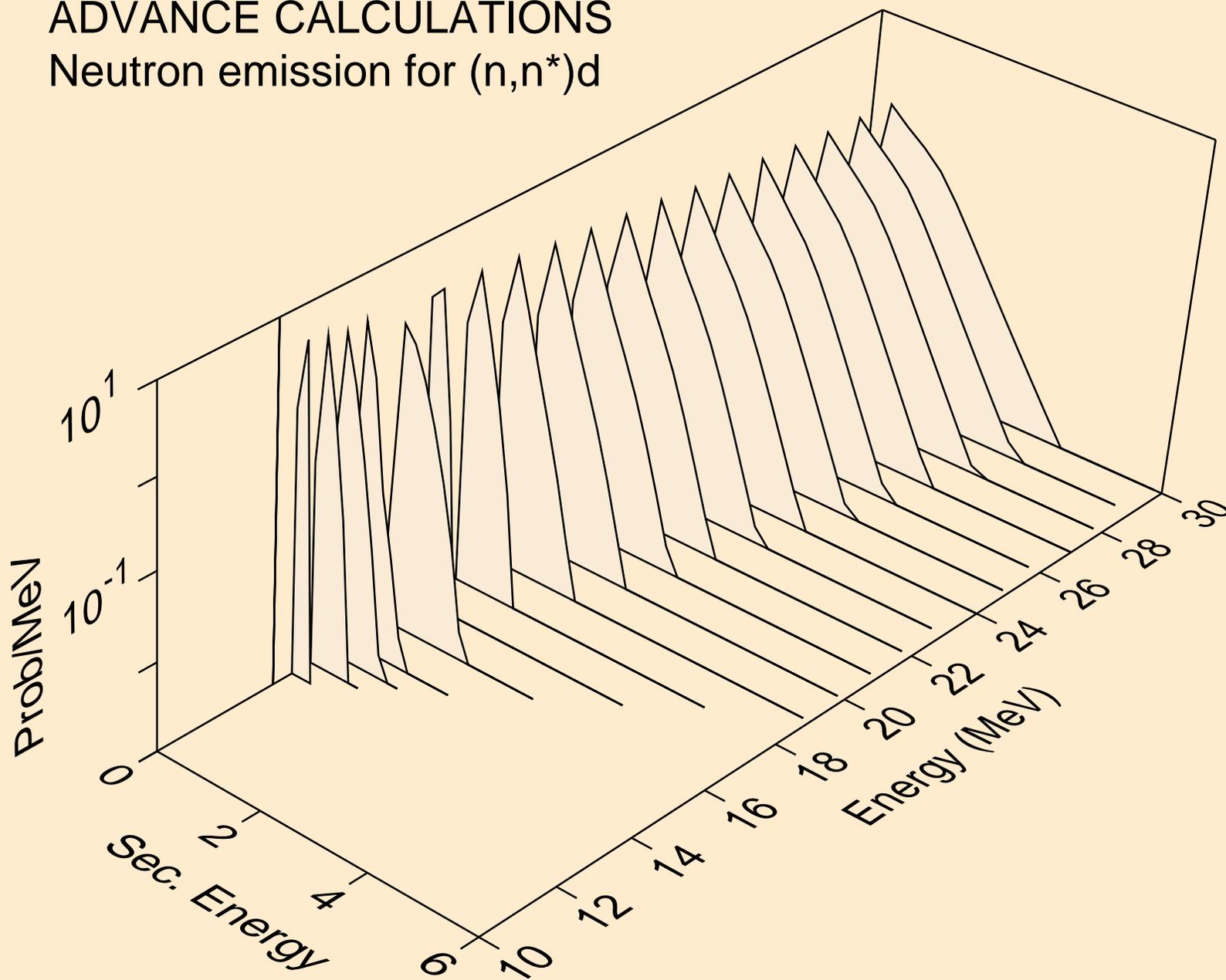
ADVANCE CALCULATIONS

Neutron emission for $(n,n^*)p$



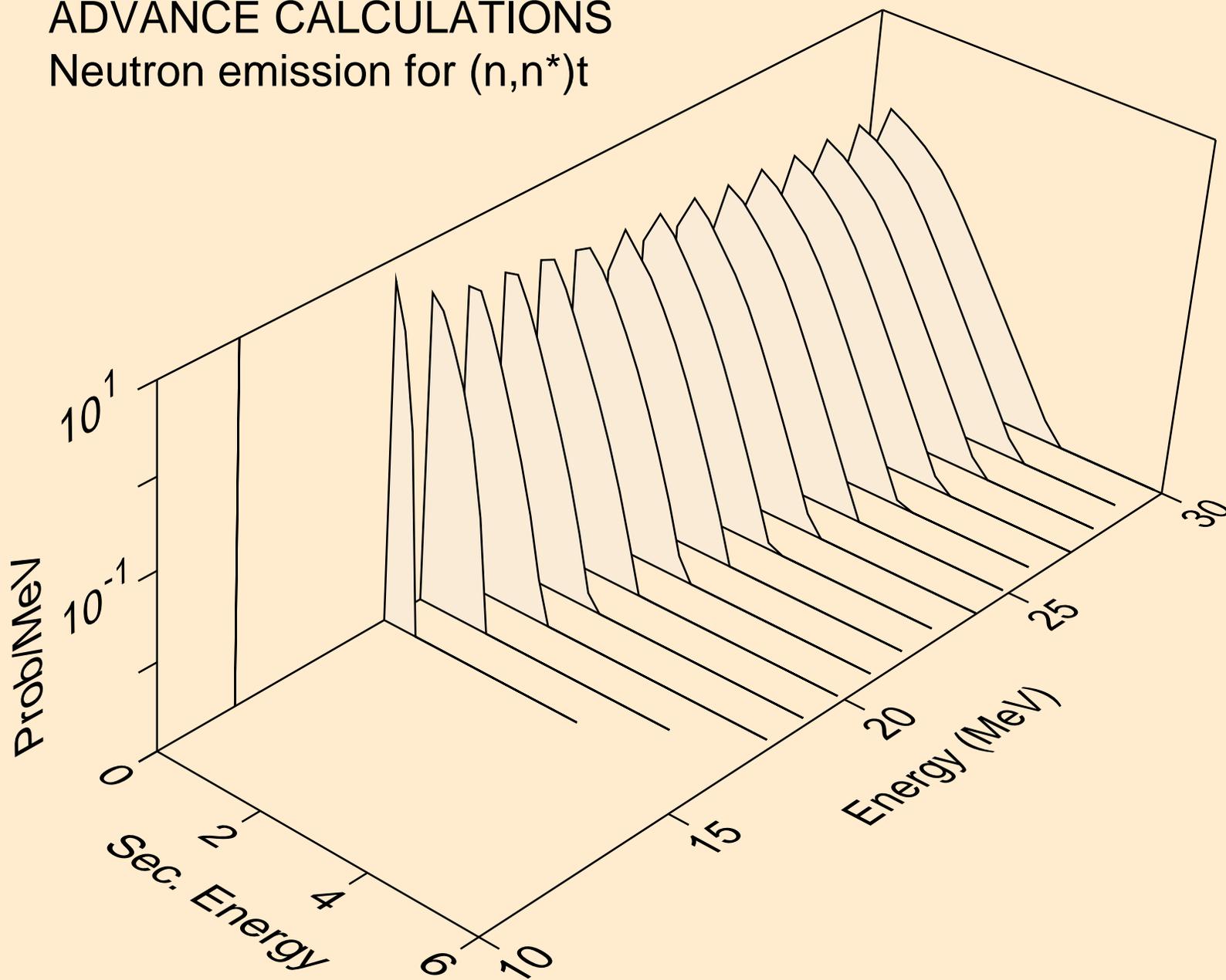
ADVANCE CALCULATIONS

Neutron emission for (n,n*)d



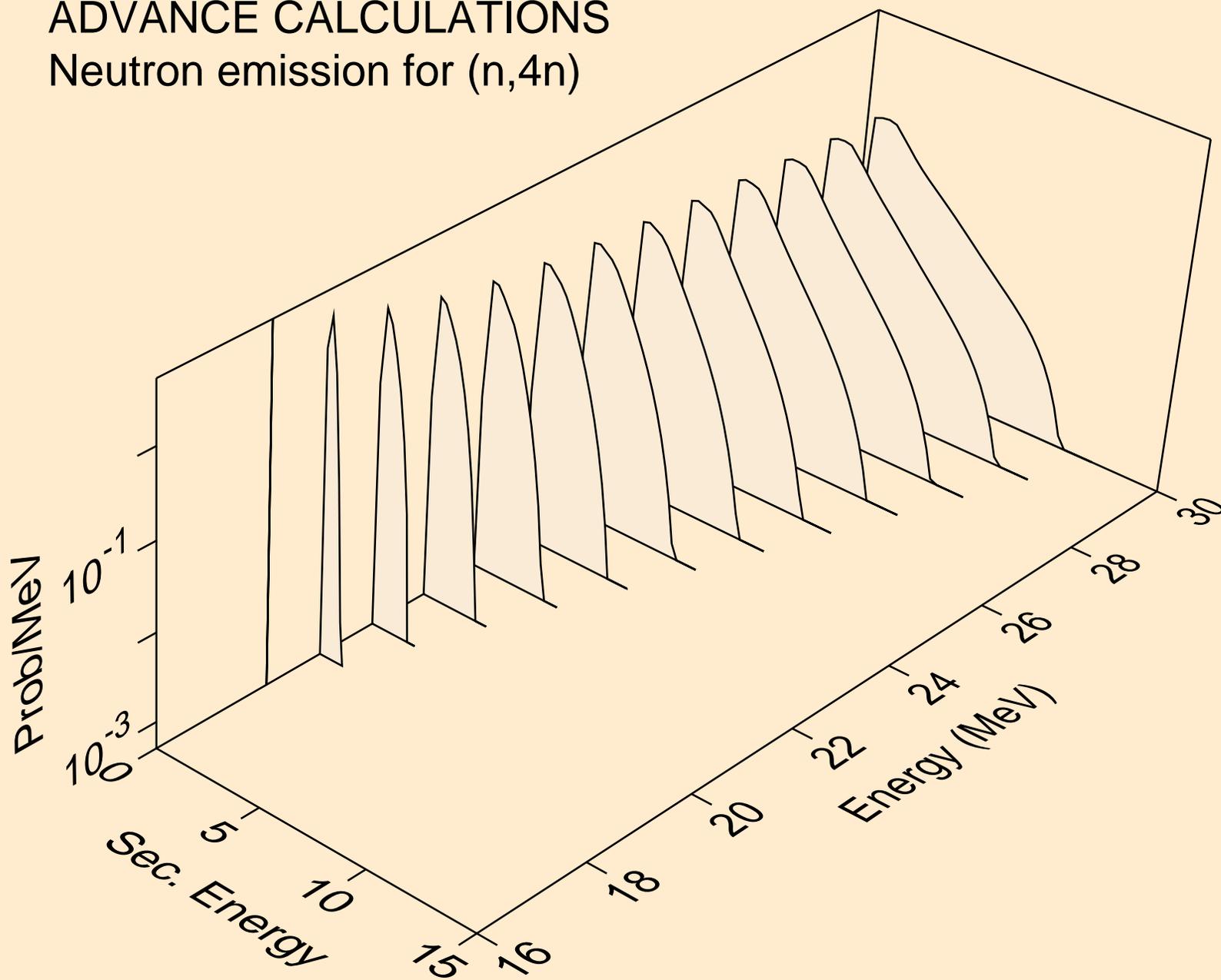
ADVANCE CALCULATIONS

Neutron emission for (n,n*)t



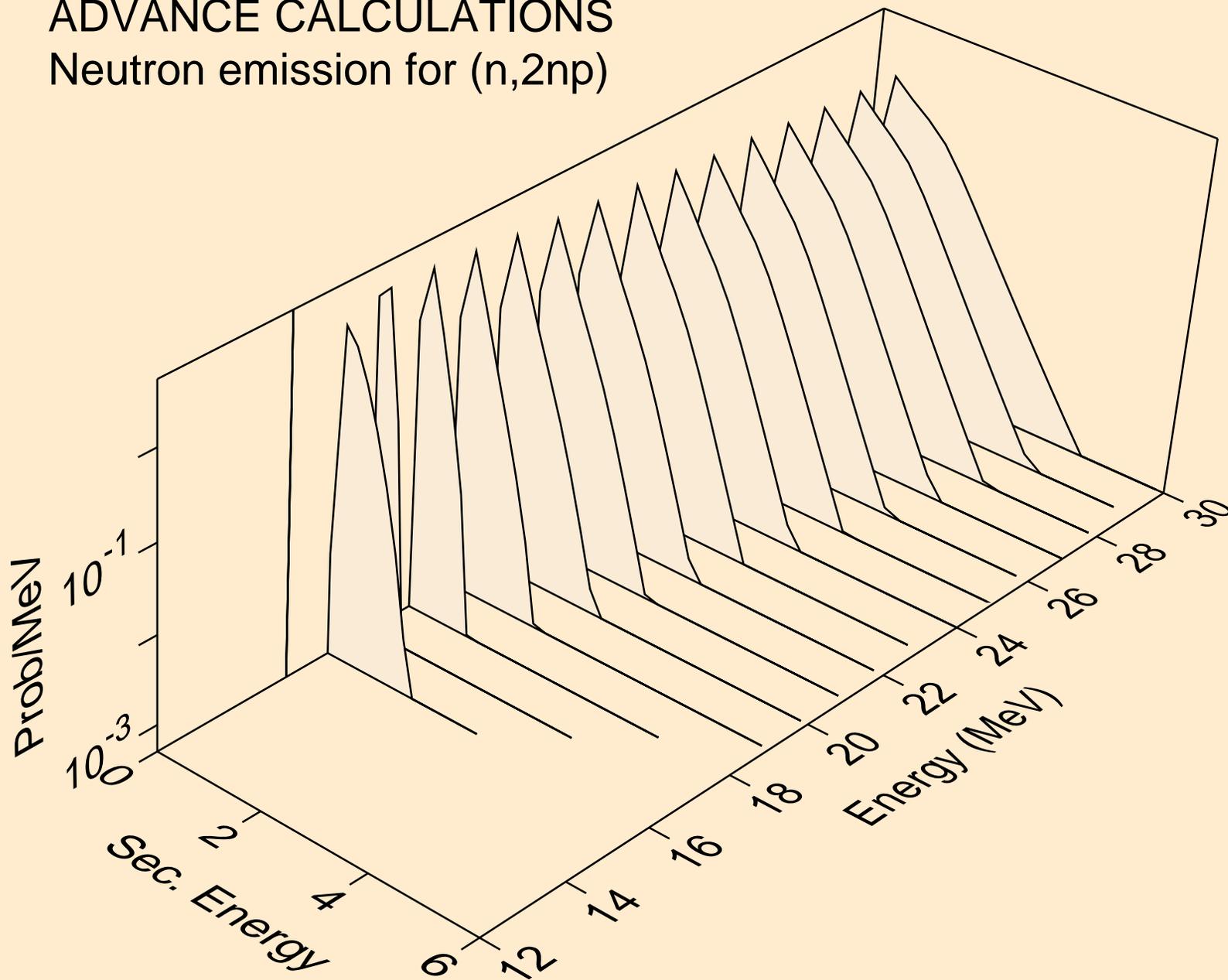
ADVANCE CALCULATIONS

Neutron emission for (n,4n)



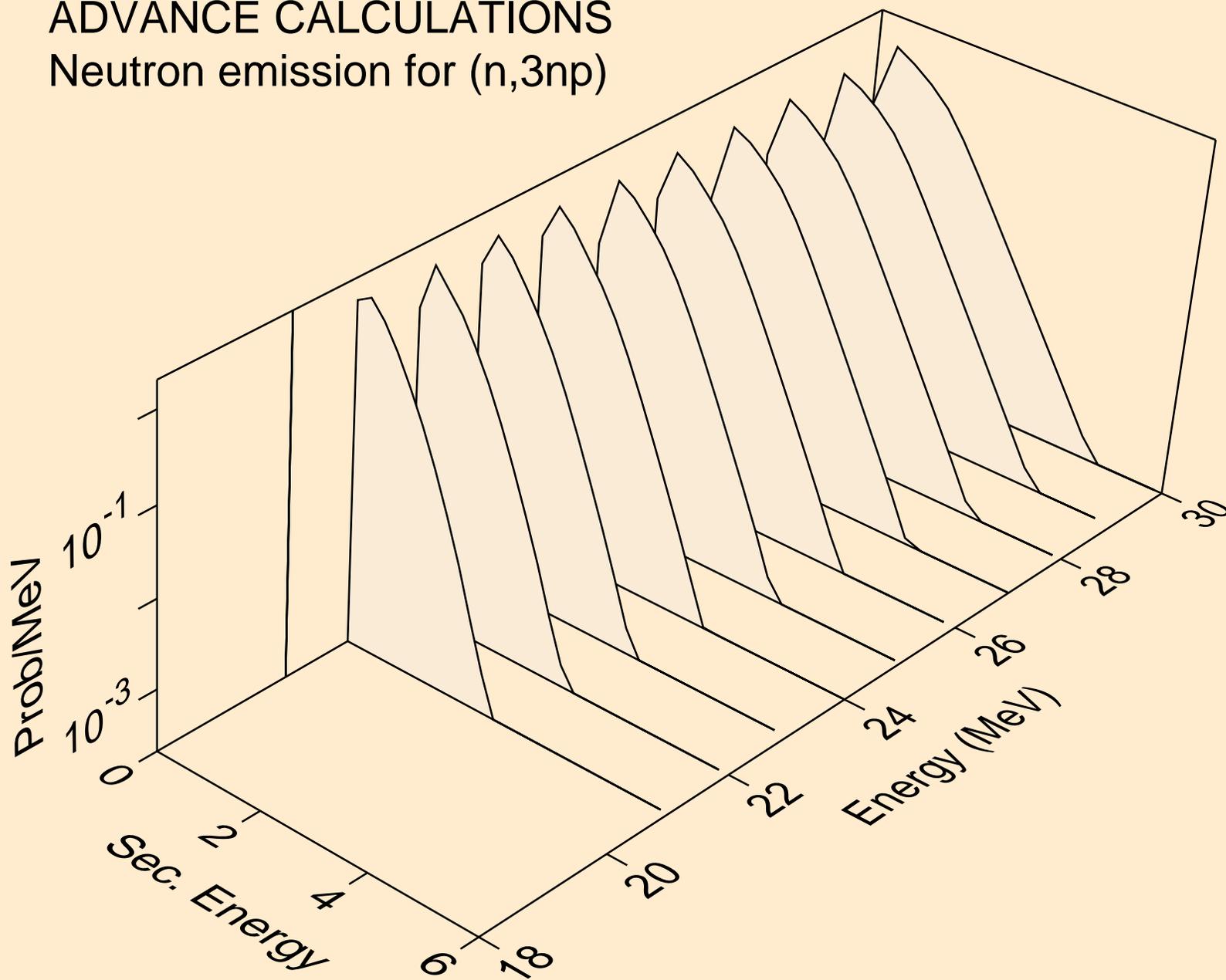
ADVANCE CALCULATIONS

Neutron emission for (n,2np)



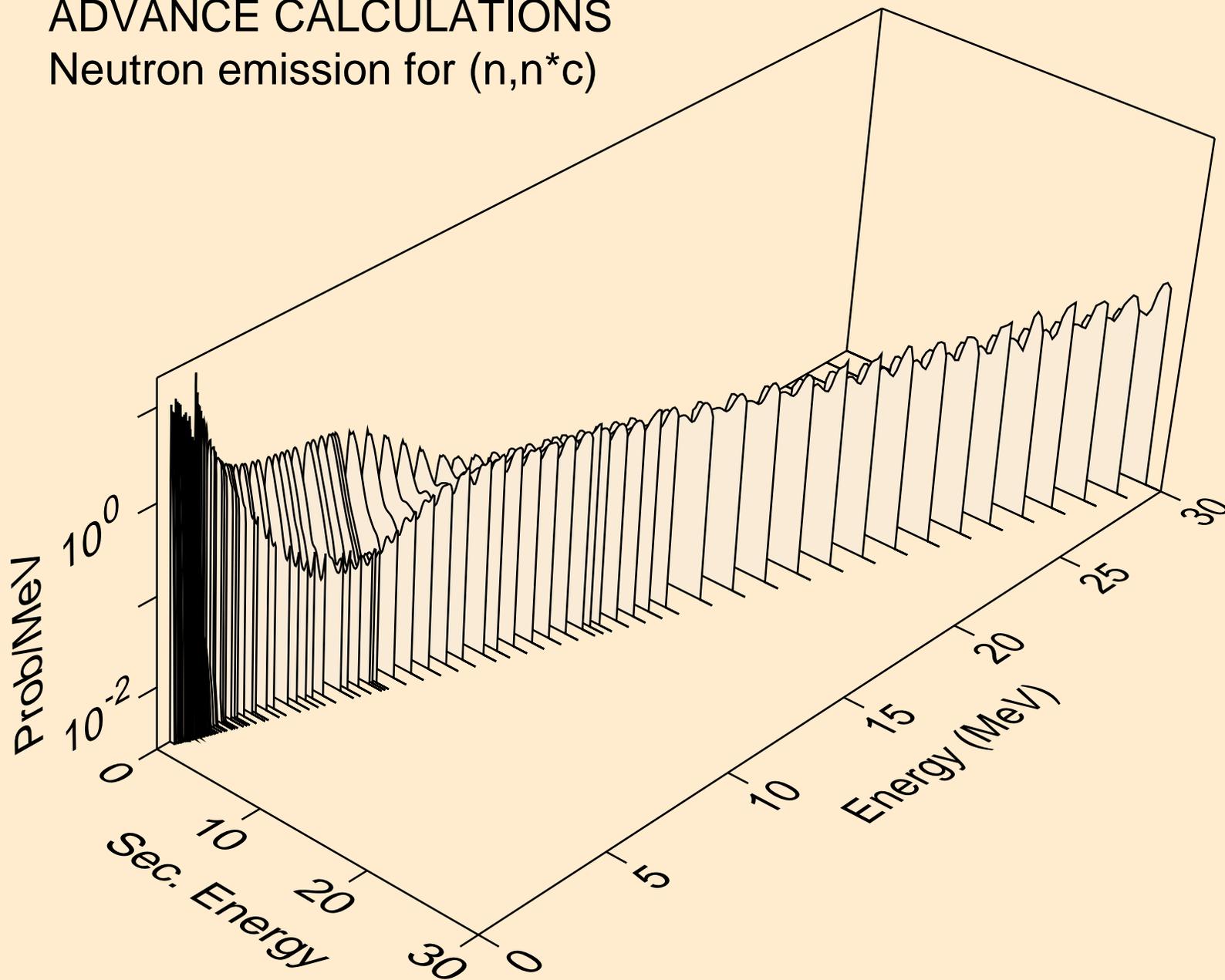
ADVANCE CALCULATIONS

Neutron emission for (n,3np)



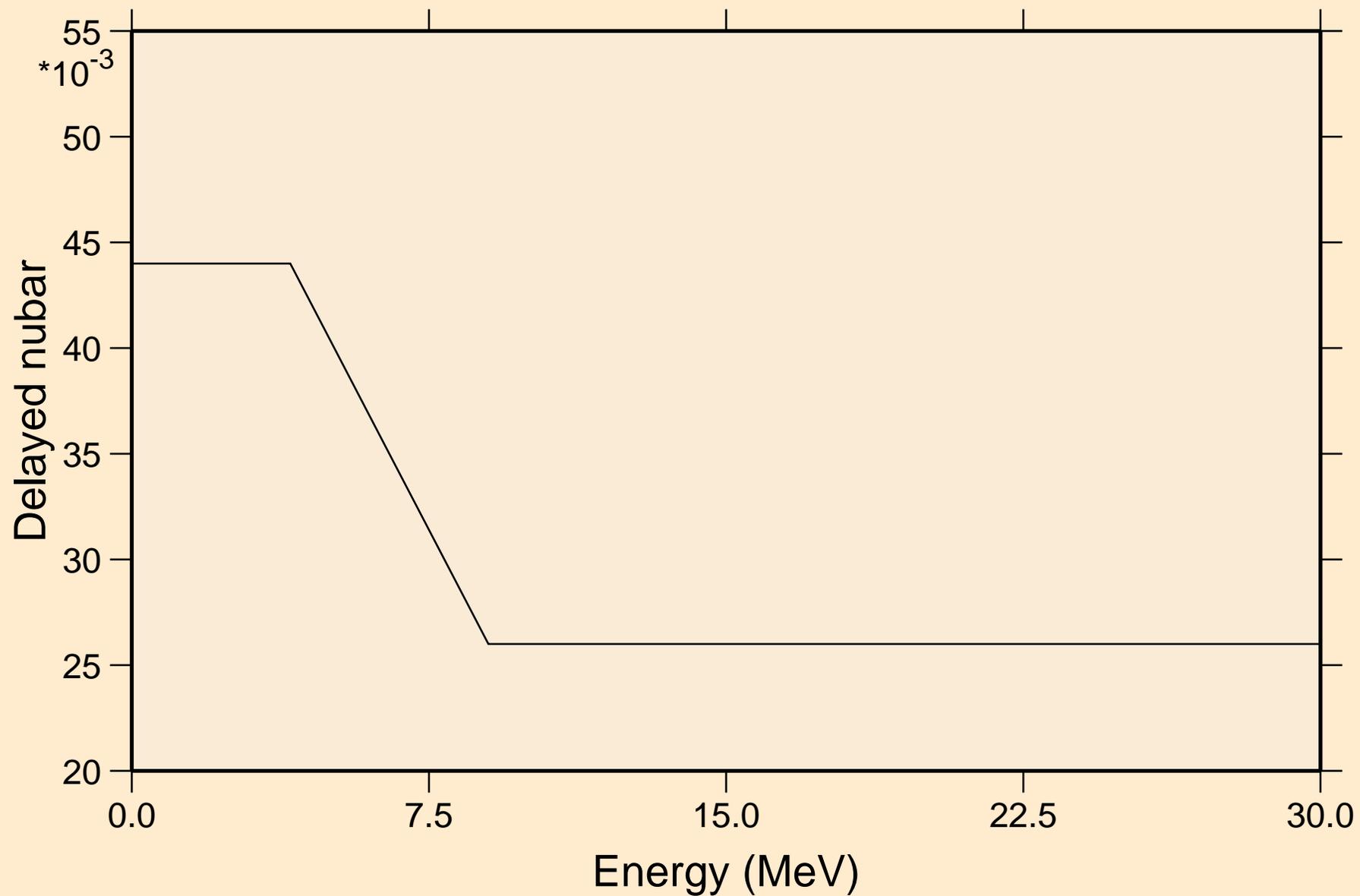
ADVANCE CALCULATIONS

Neutron emission for (n,n*c)



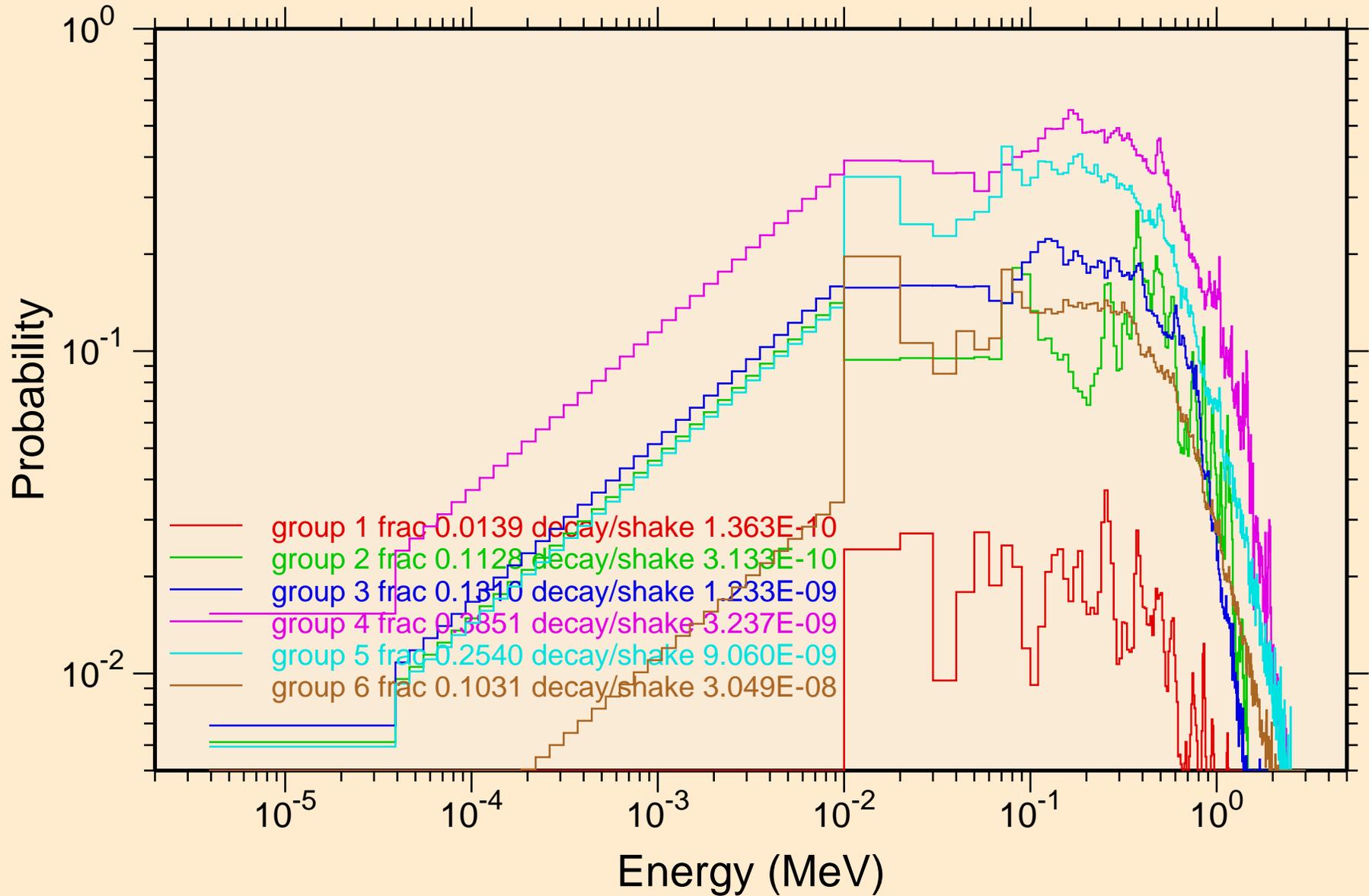
ADVANCE CALCULATIONS

Delayed nubar



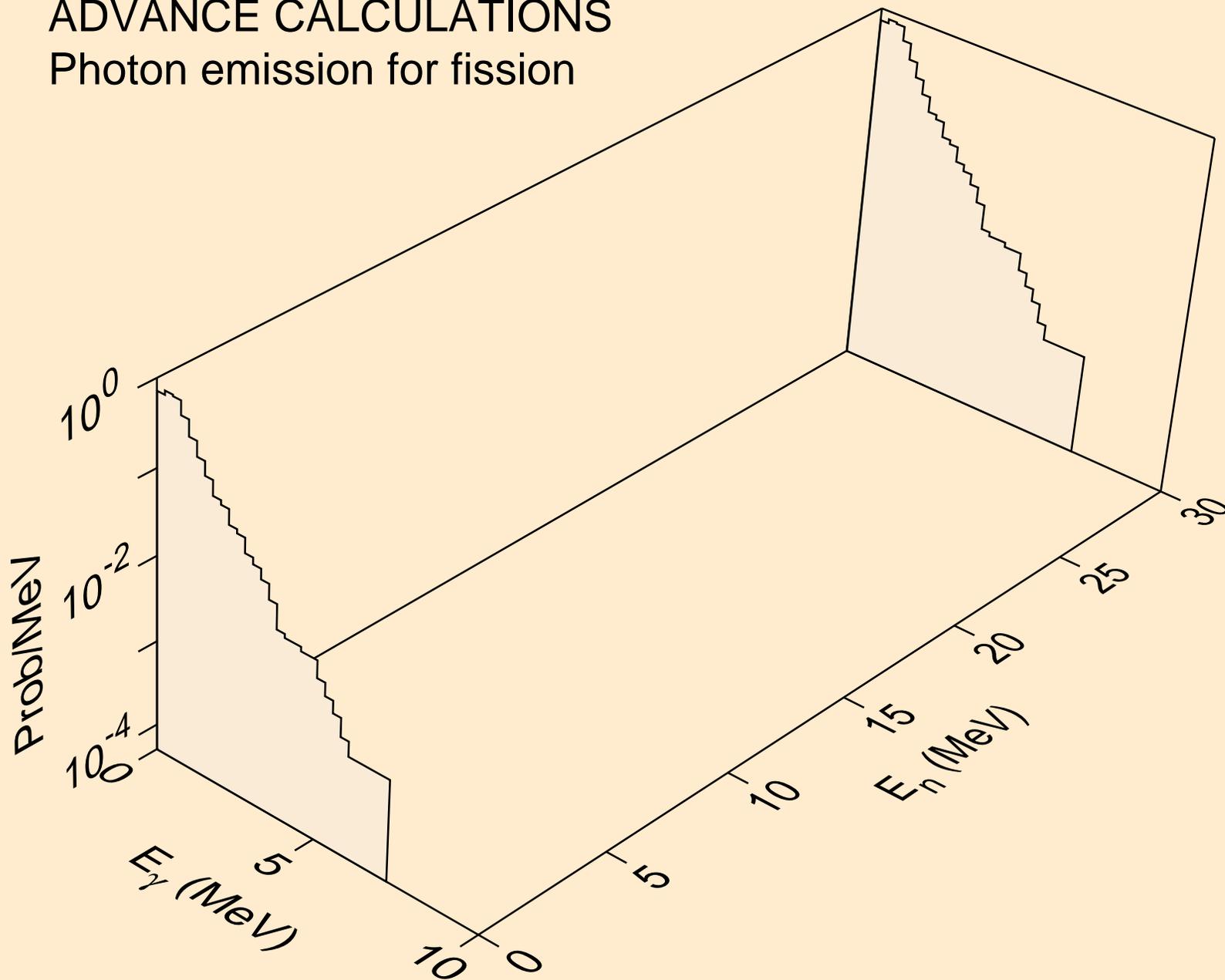
ADVANCE CALCULATIONS

Delayed neutron spectra



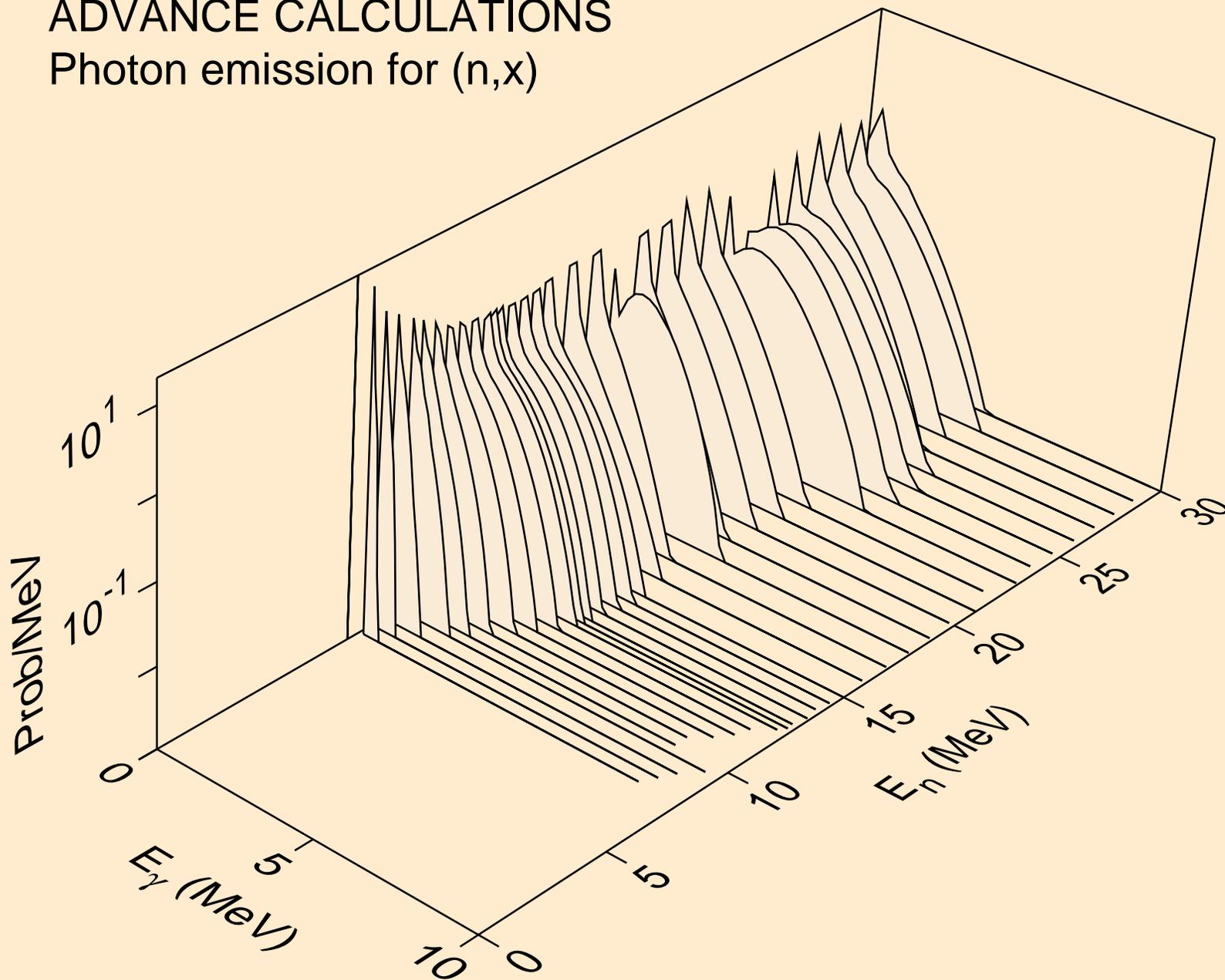
ADVANCE CALCULATIONS

Photon emission for fission



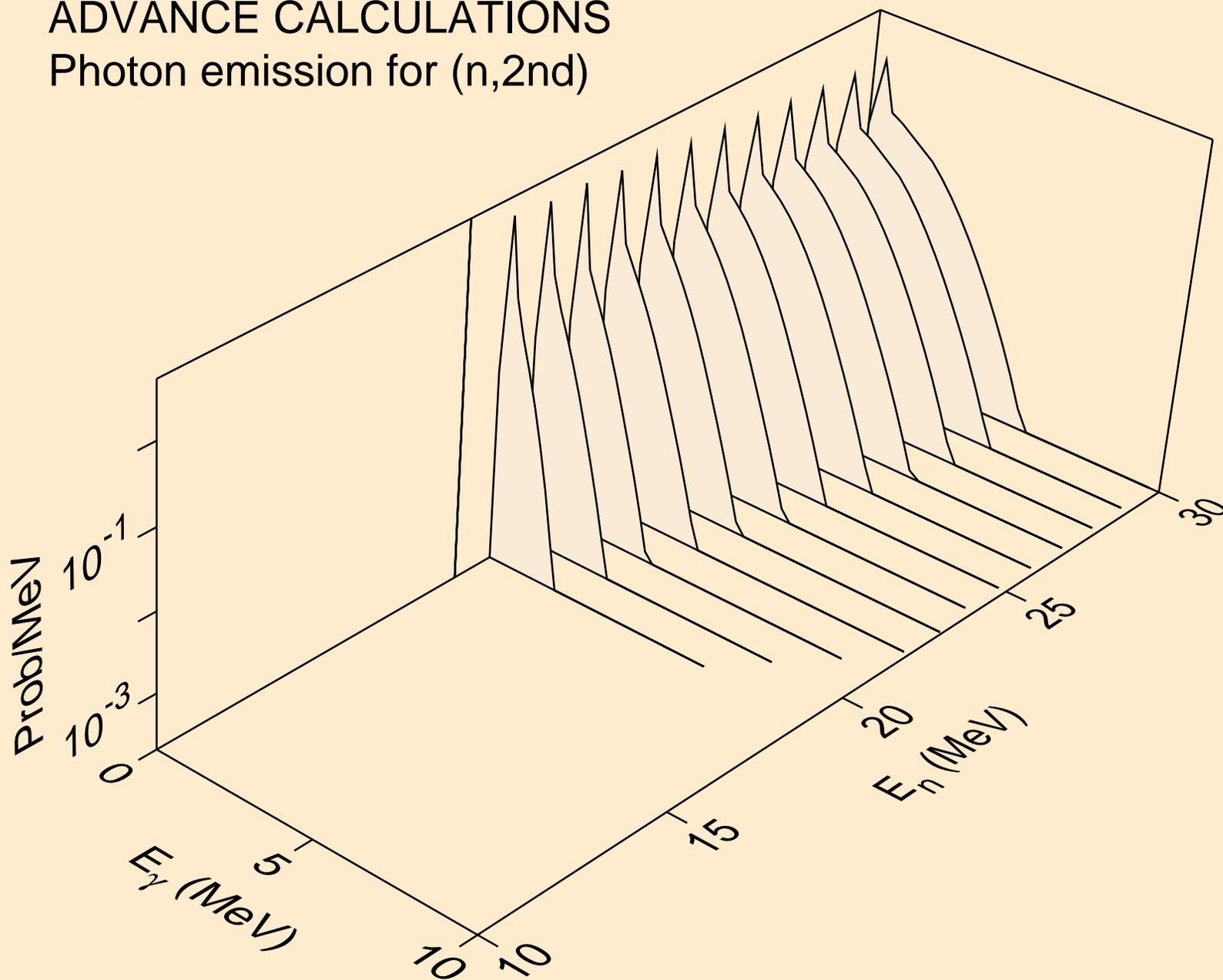
ADVANCE CALCULATIONS

Photon emission for (n,x)



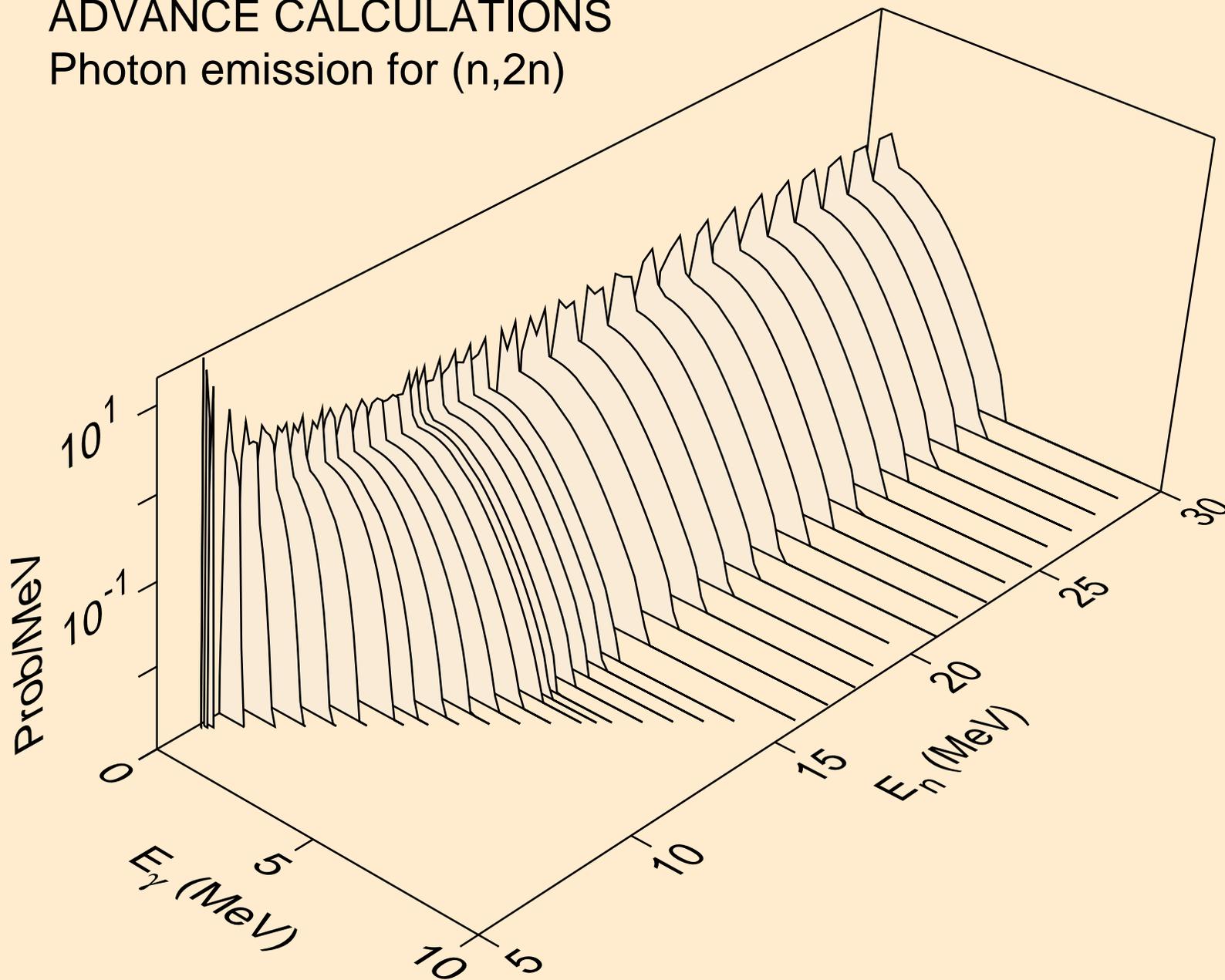
ADVANCE CALCULATIONS

Photon emission for (n,2nd)



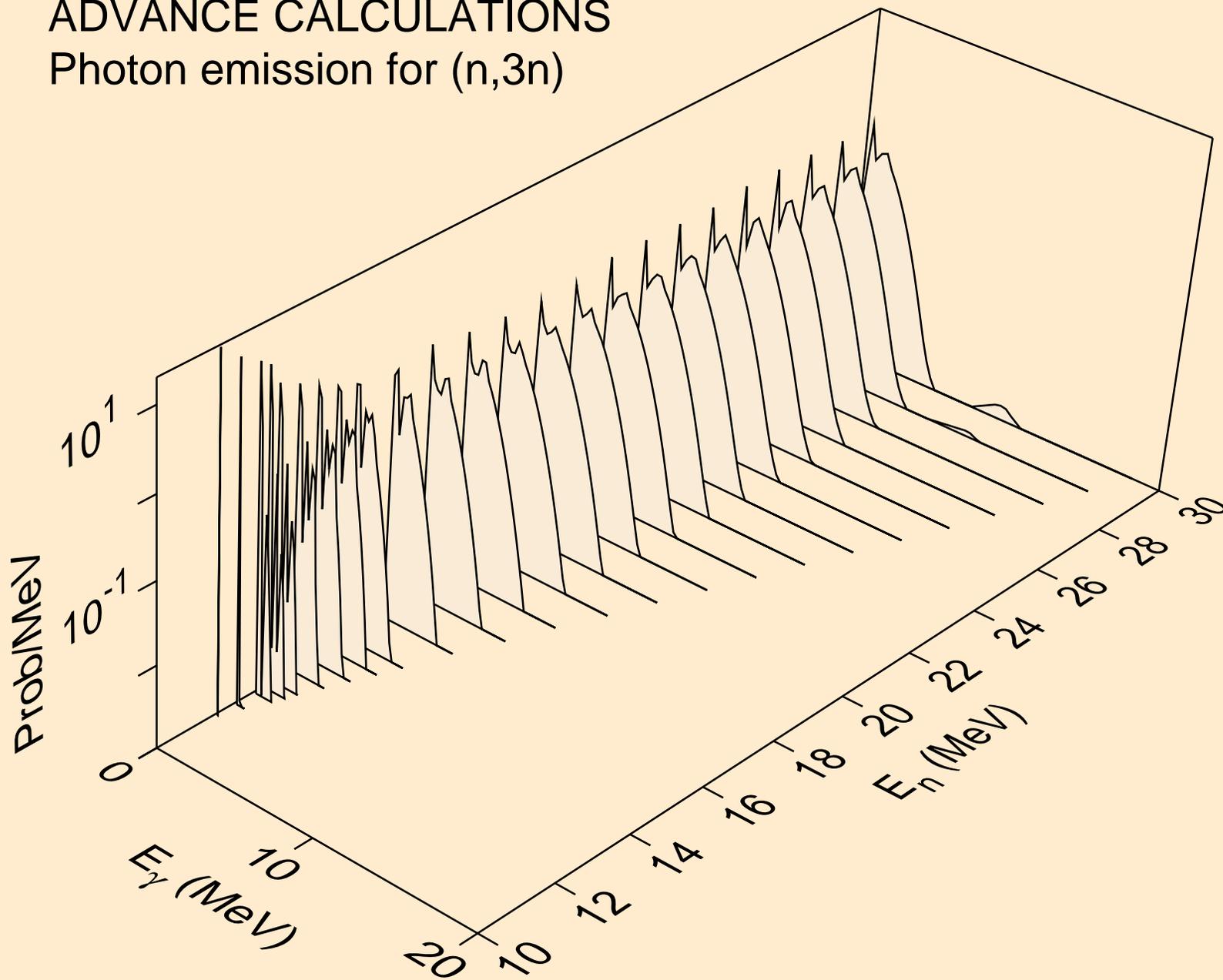
ADVANCE CALCULATIONS

Photon emission for (n,2n)



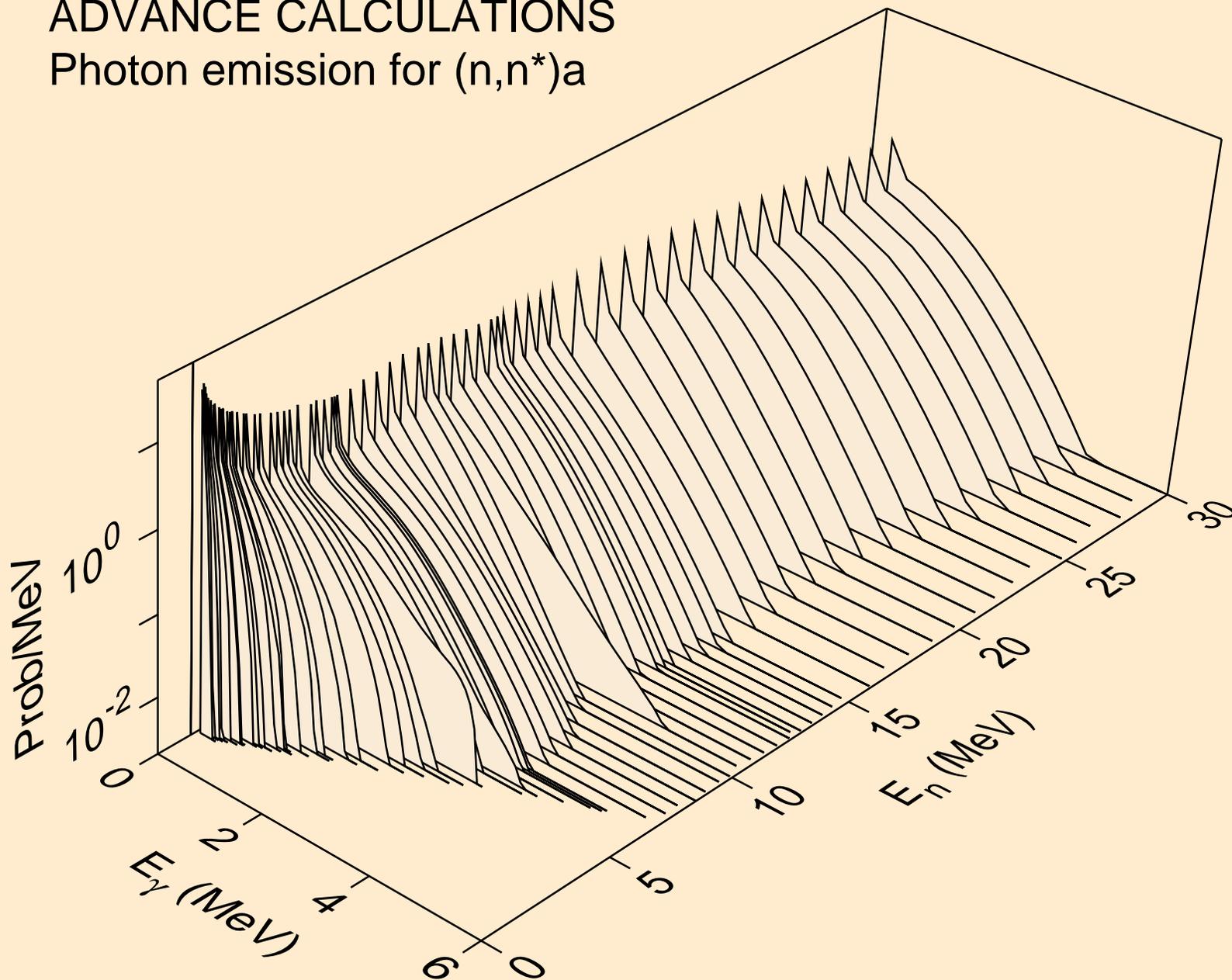
ADVANCE CALCULATIONS

Photon emission for (n,3n)



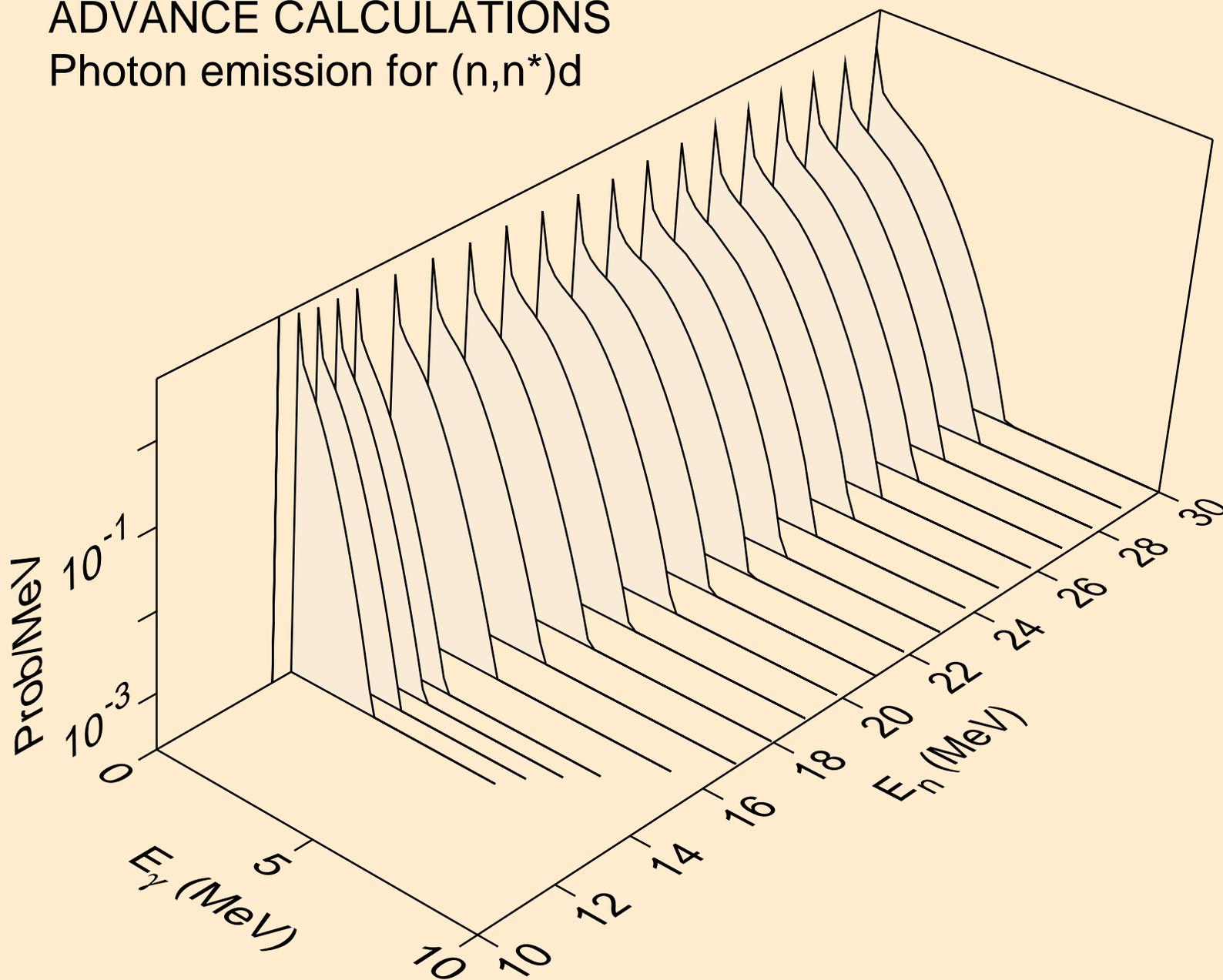
ADVANCE CALCULATIONS

Photon emission for $(n,n^*)_a$



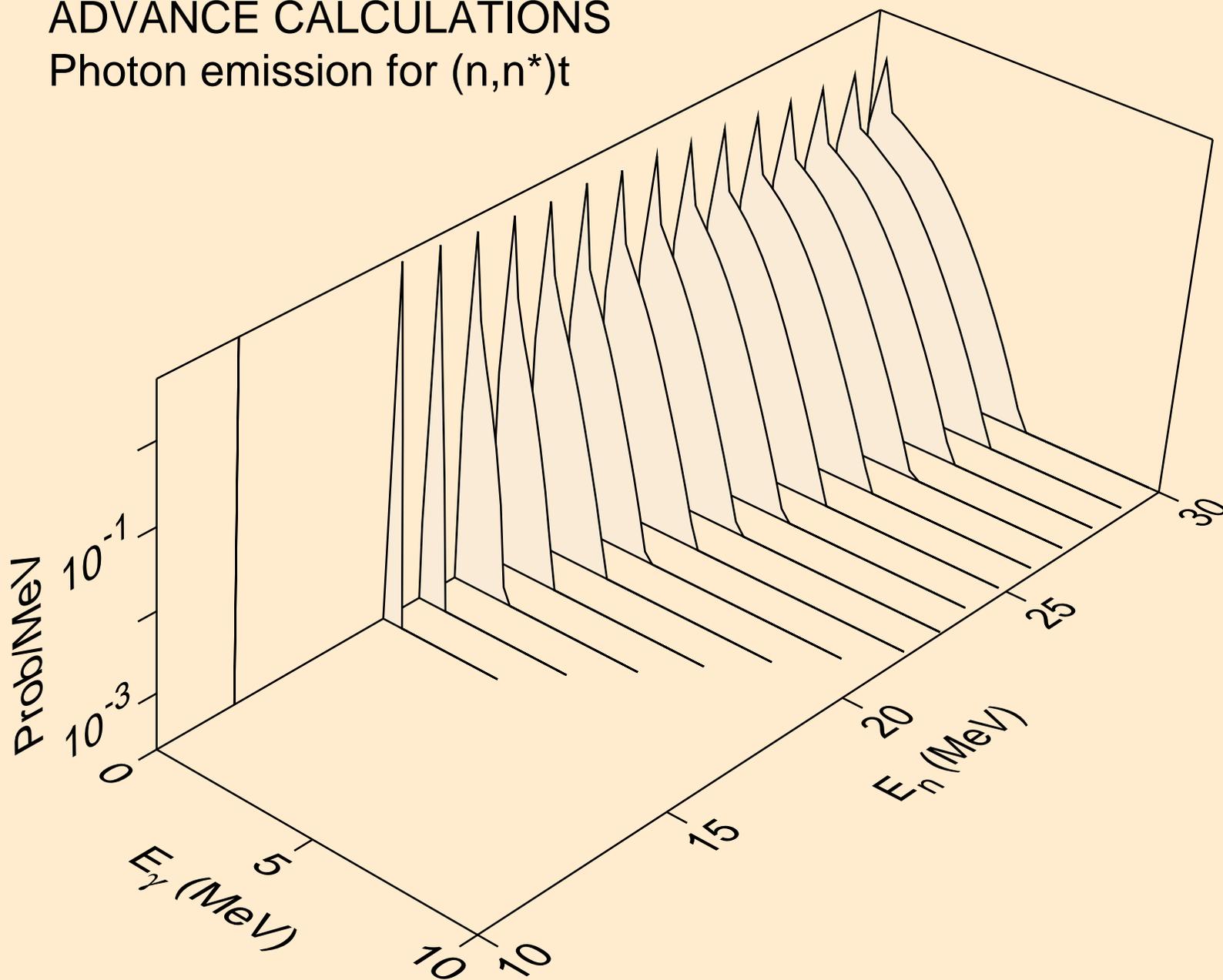
ADVANCE CALCULATIONS

Photon emission for $(n,n^*)d$



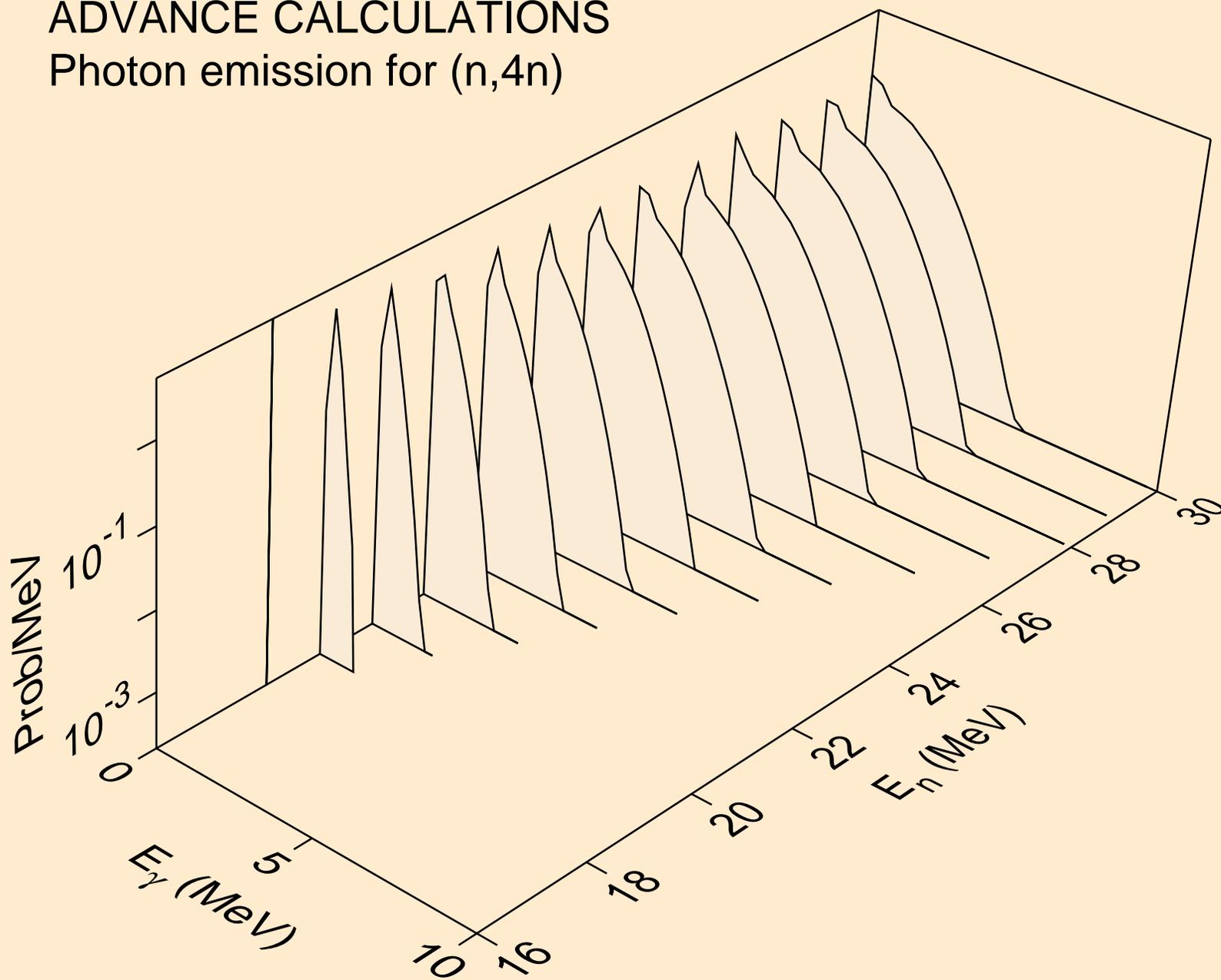
ADVANCE CALCULATIONS

Photon emission for $(n,n^*)t$



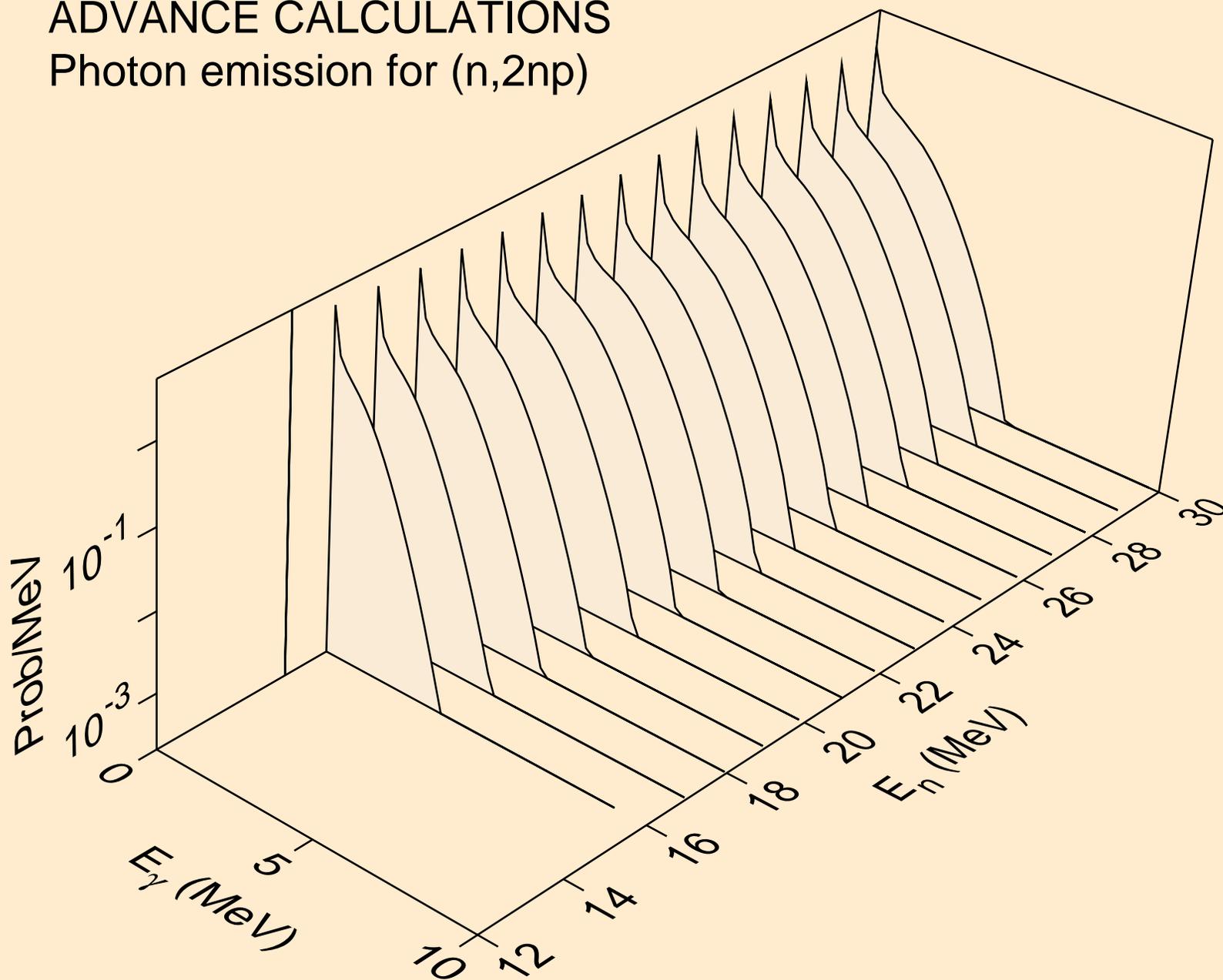
ADVANCE CALCULATIONS

Photon emission for (n,4n)



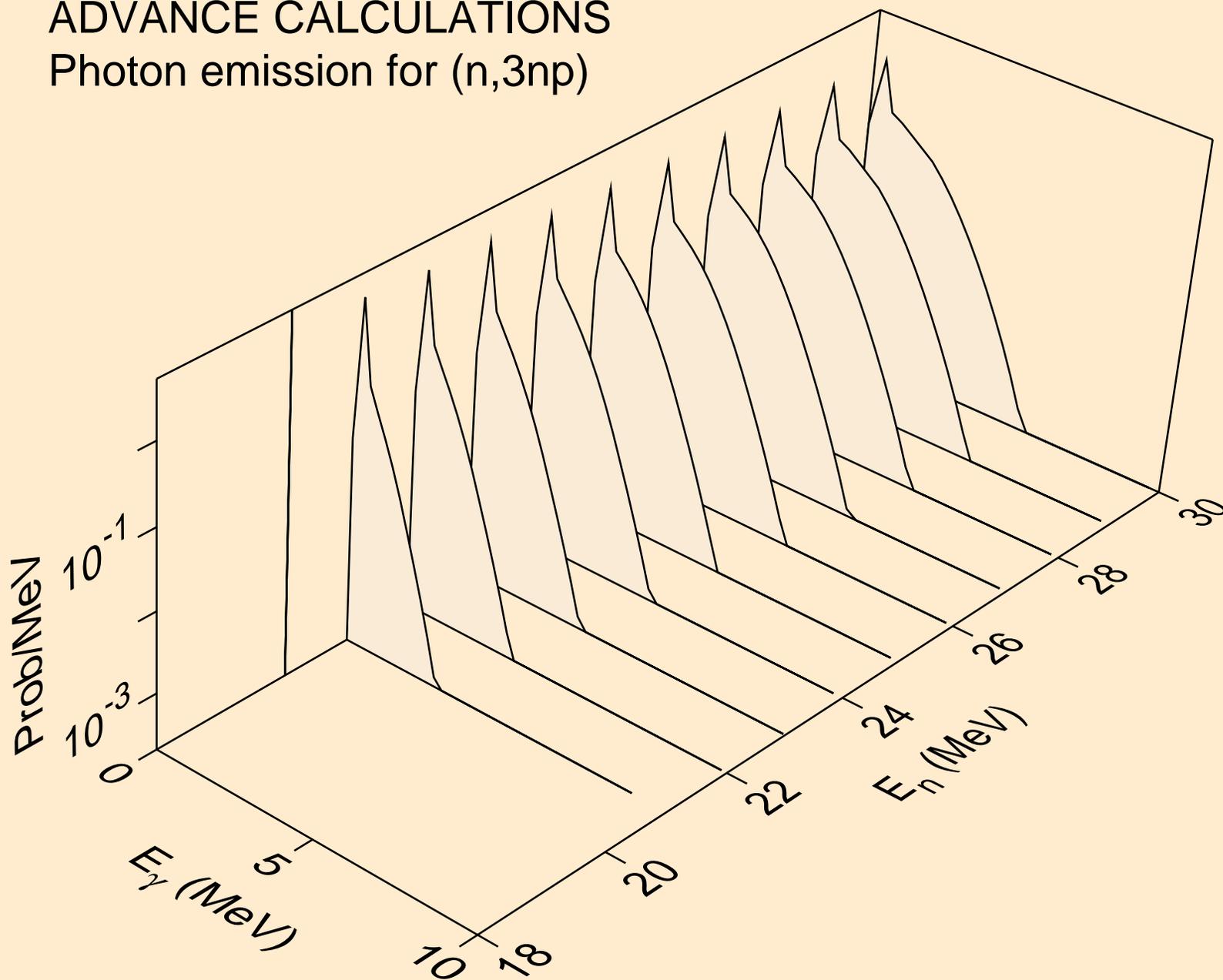
ADVANCE CALCULATIONS

Photon emission for (n,2np)



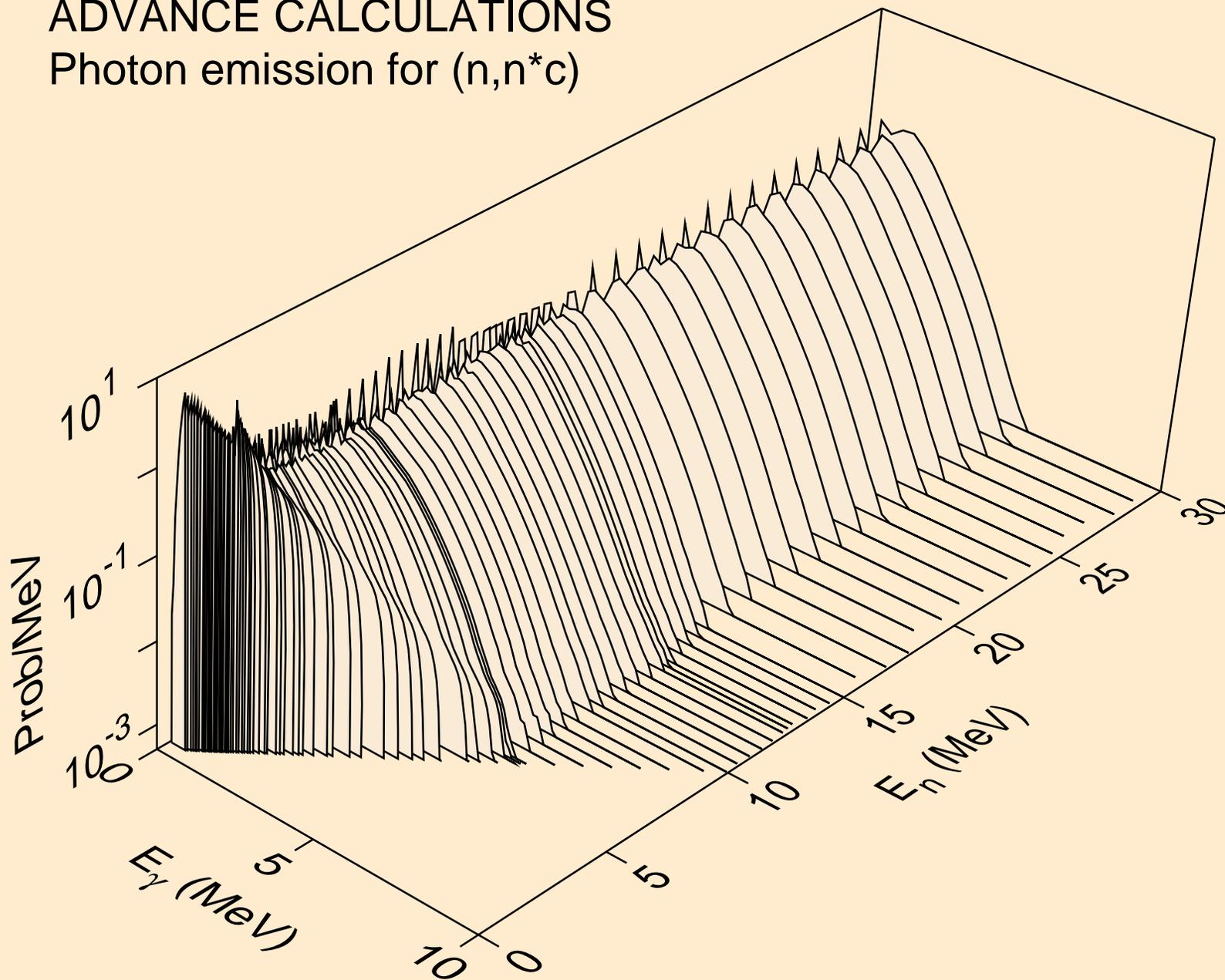
ADVANCE CALCULATIONS

Photon emission for (n,3np)



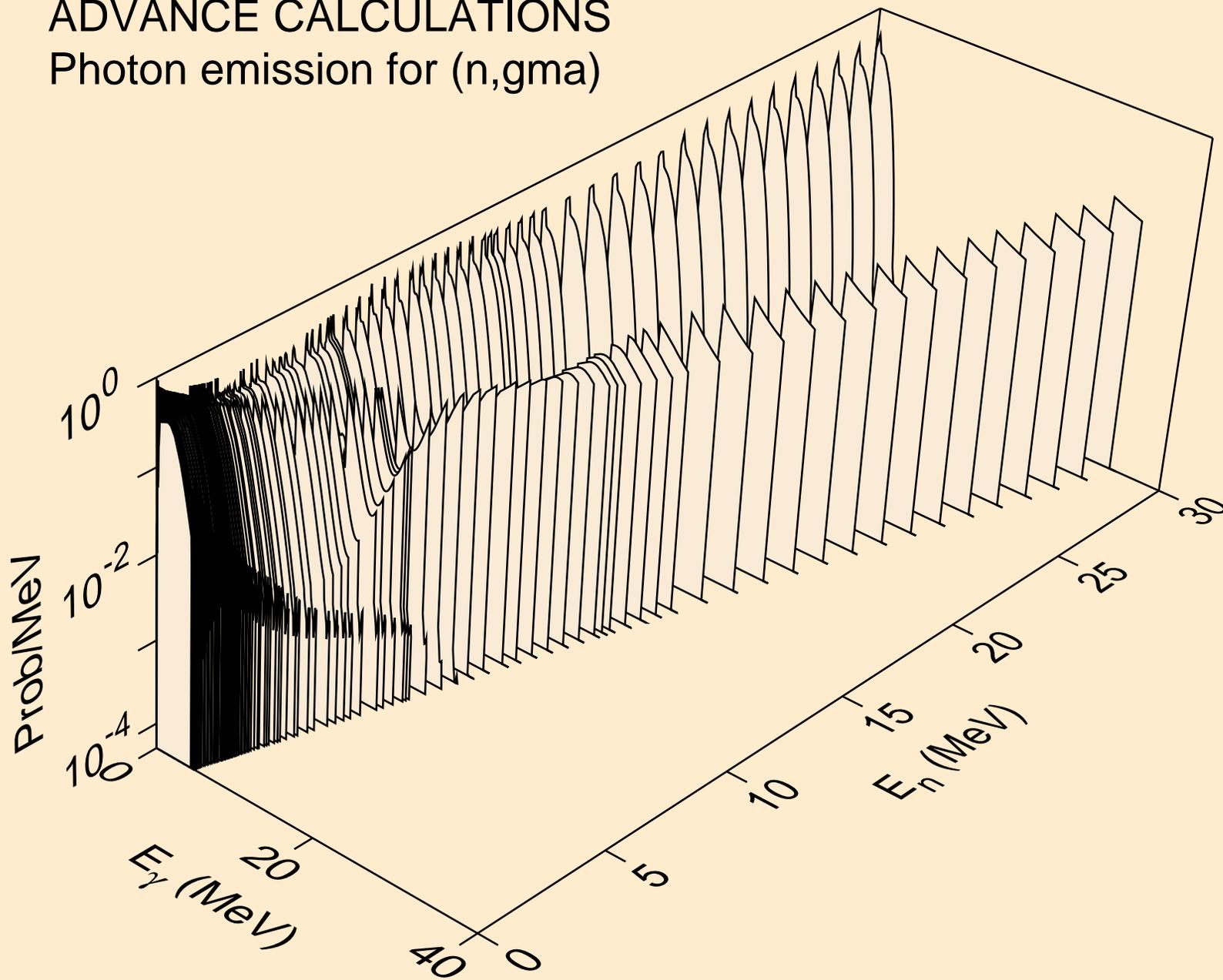
ADVANCE CALCULATIONS

Photon emission for (n,n*c)



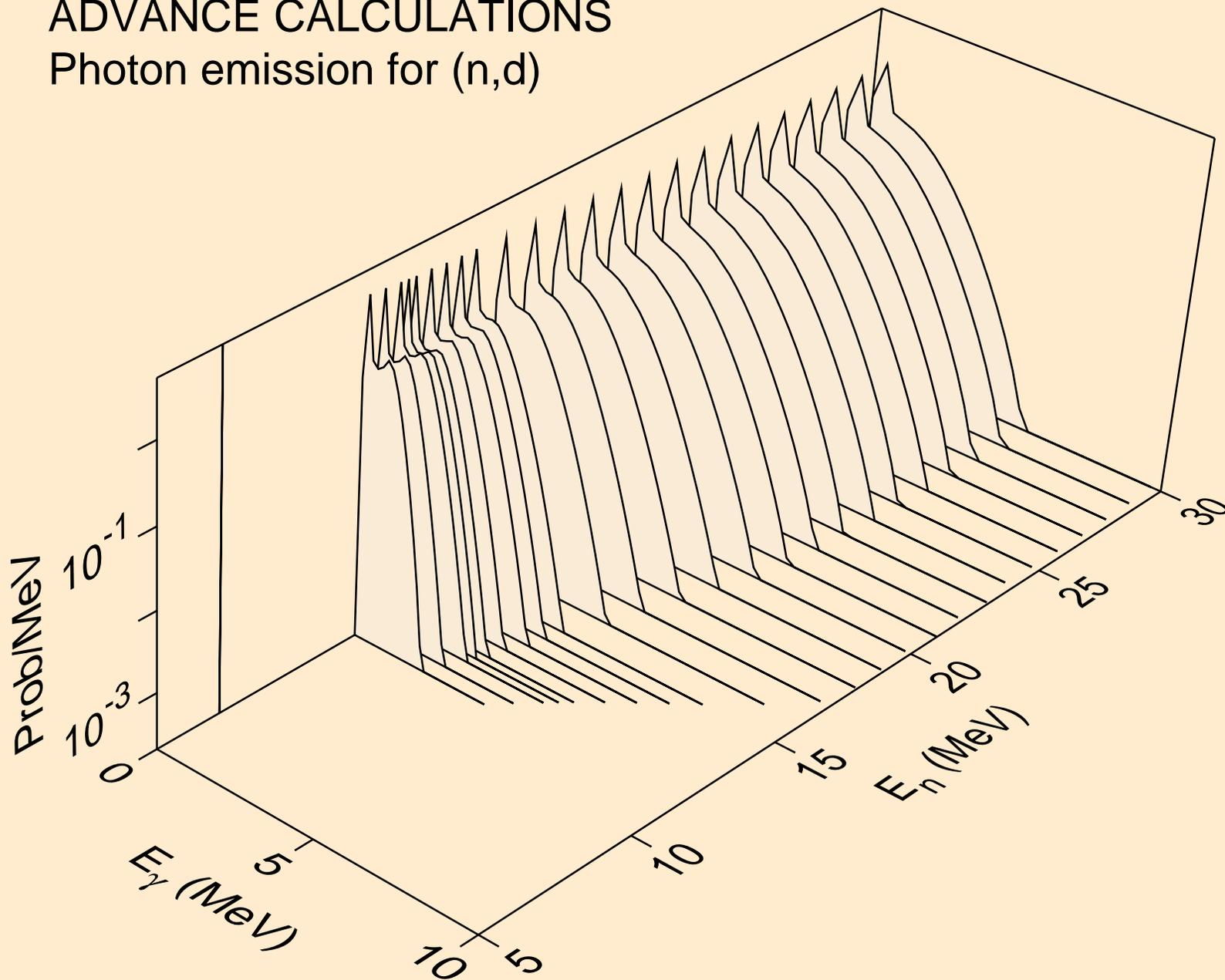
ADVANCE CALCULATIONS

Photon emission for (n,gma)



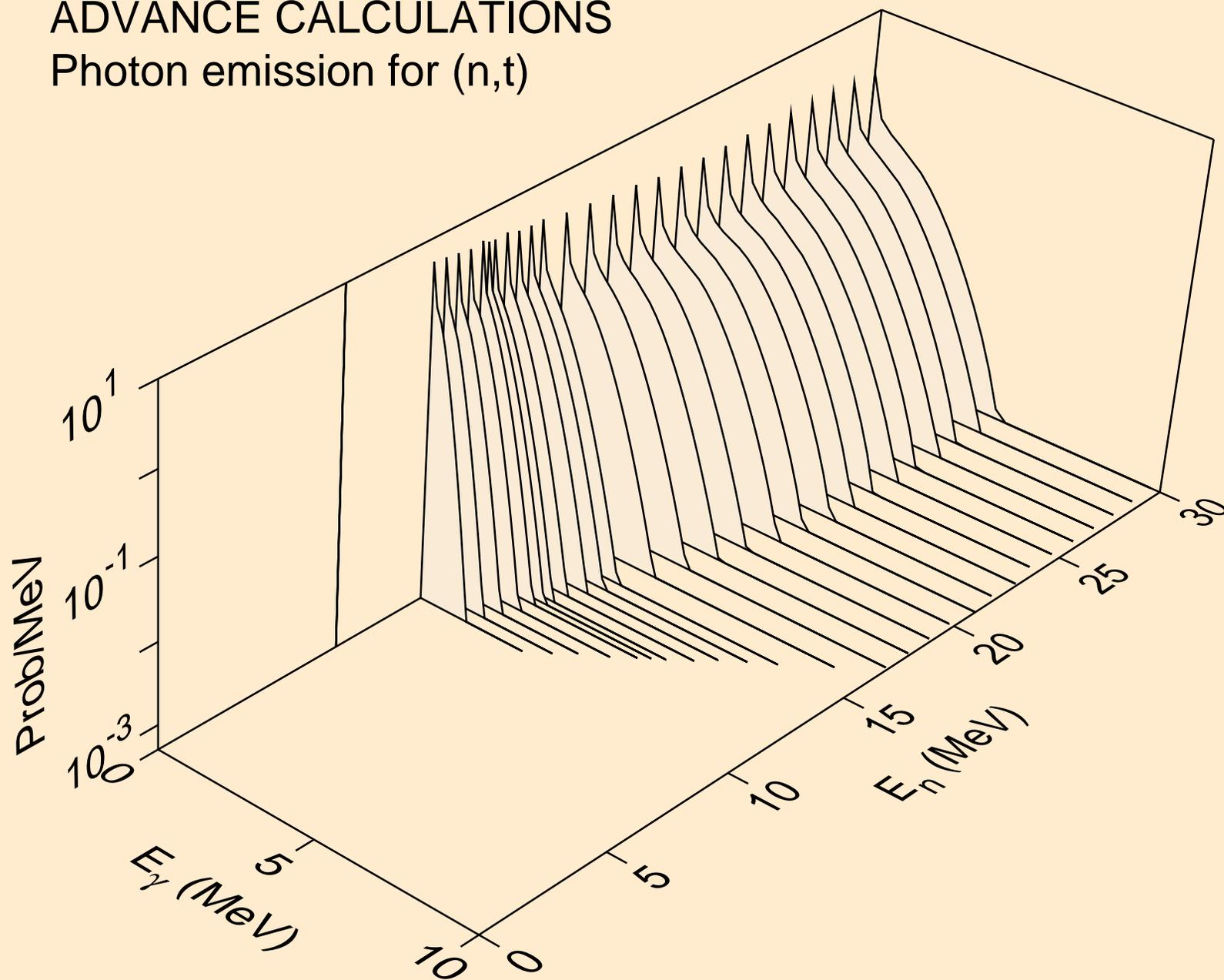
ADVANCE CALCULATIONS

Photon emission for (n,d)



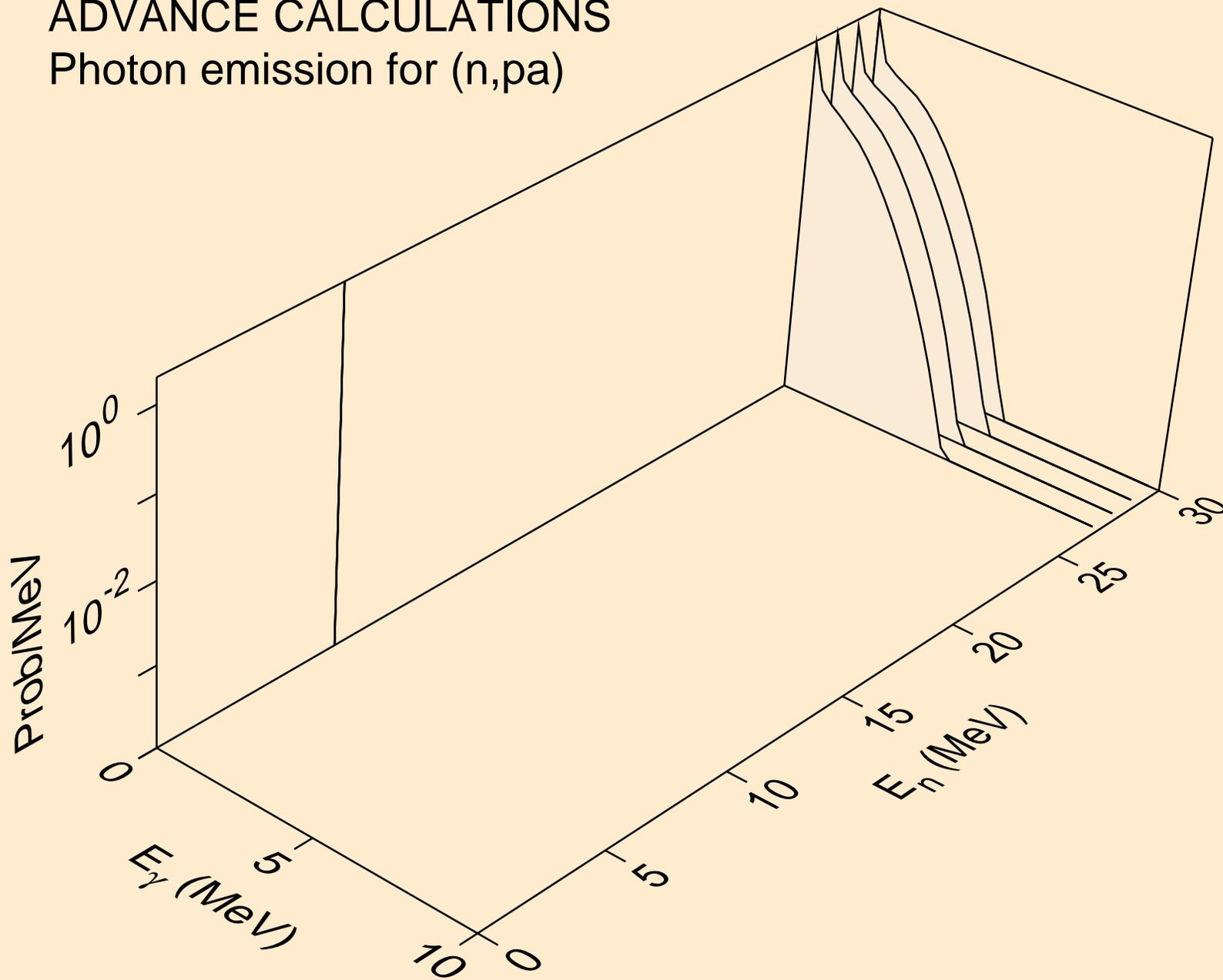
ADVANCE CALCULATIONS

Photon emission for (n,t)



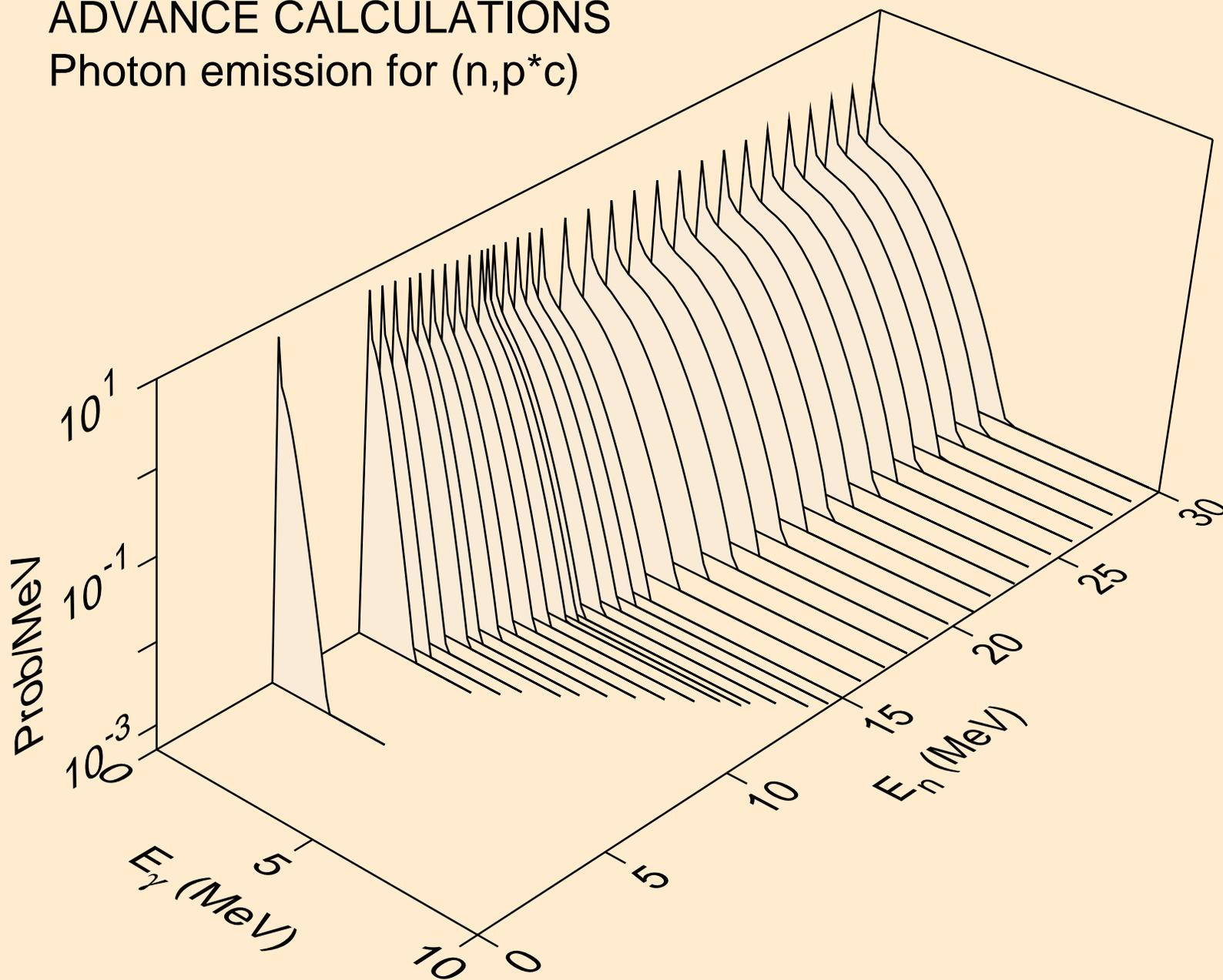
ADVANCE CALCULATIONS

Photon emission for (n,pa)



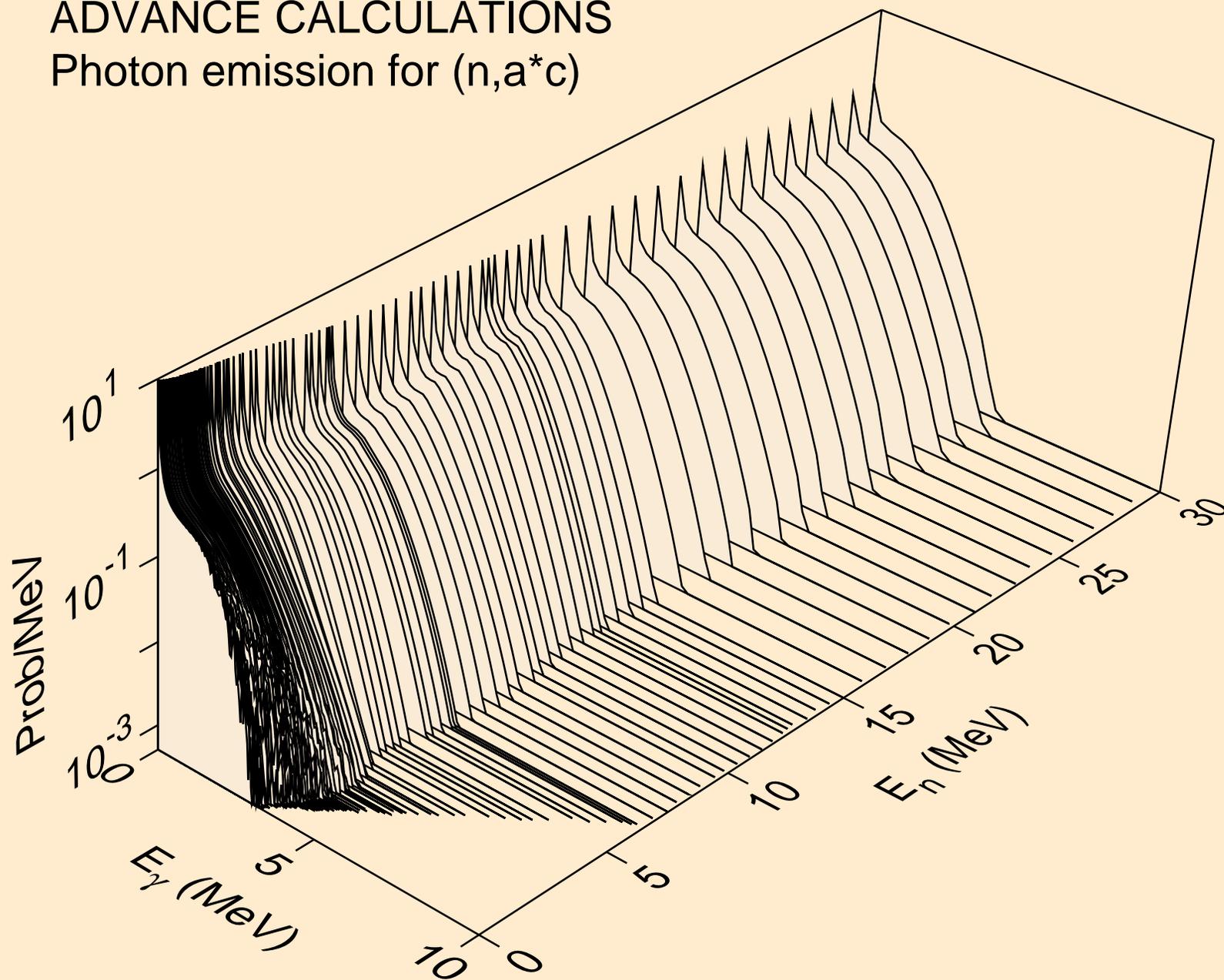
ADVANCE CALCULATIONS

Photon emission for (n,p*c)



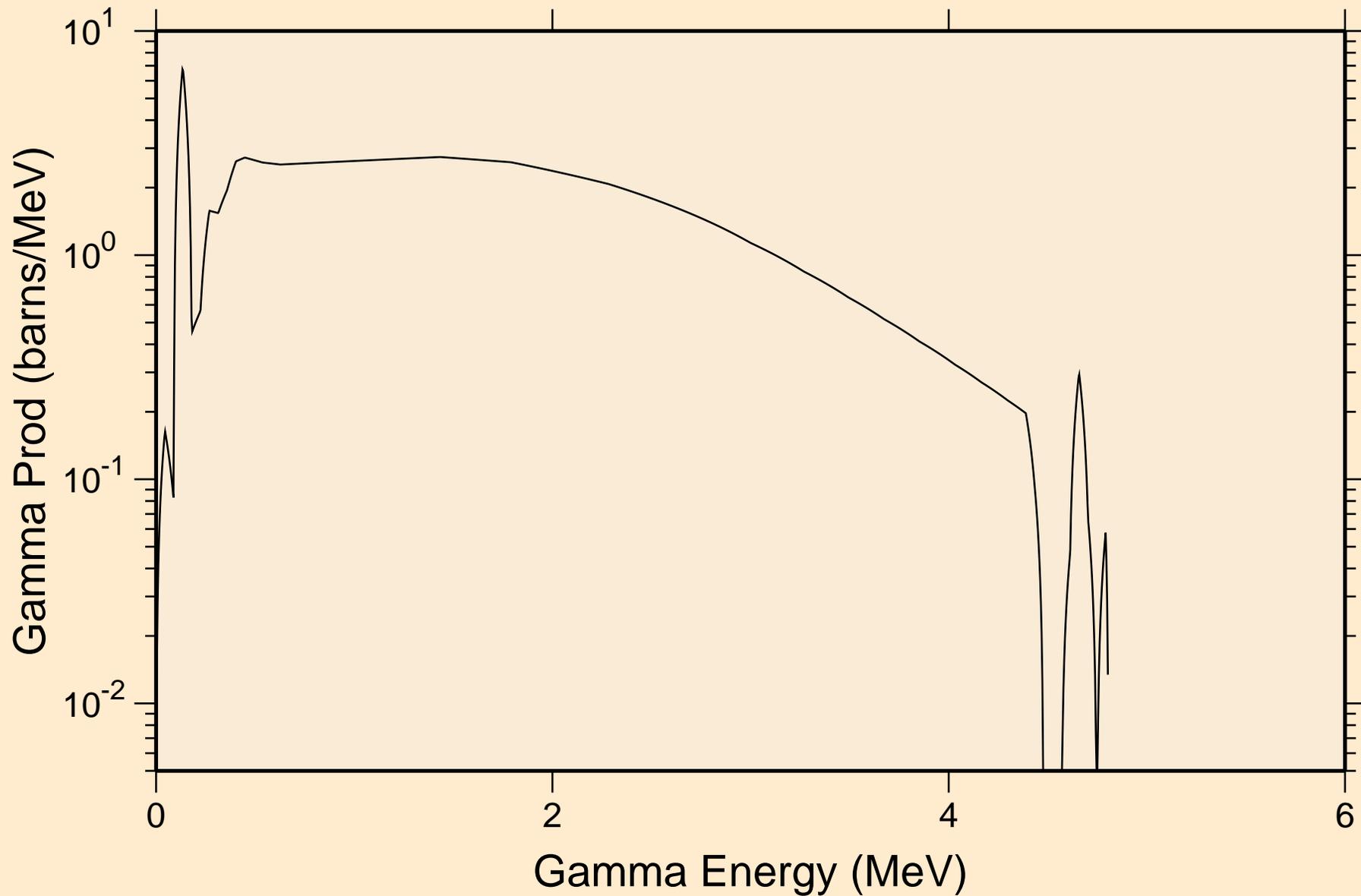
ADVANCE CALCULATIONS

Photon emission for (n,a*c)



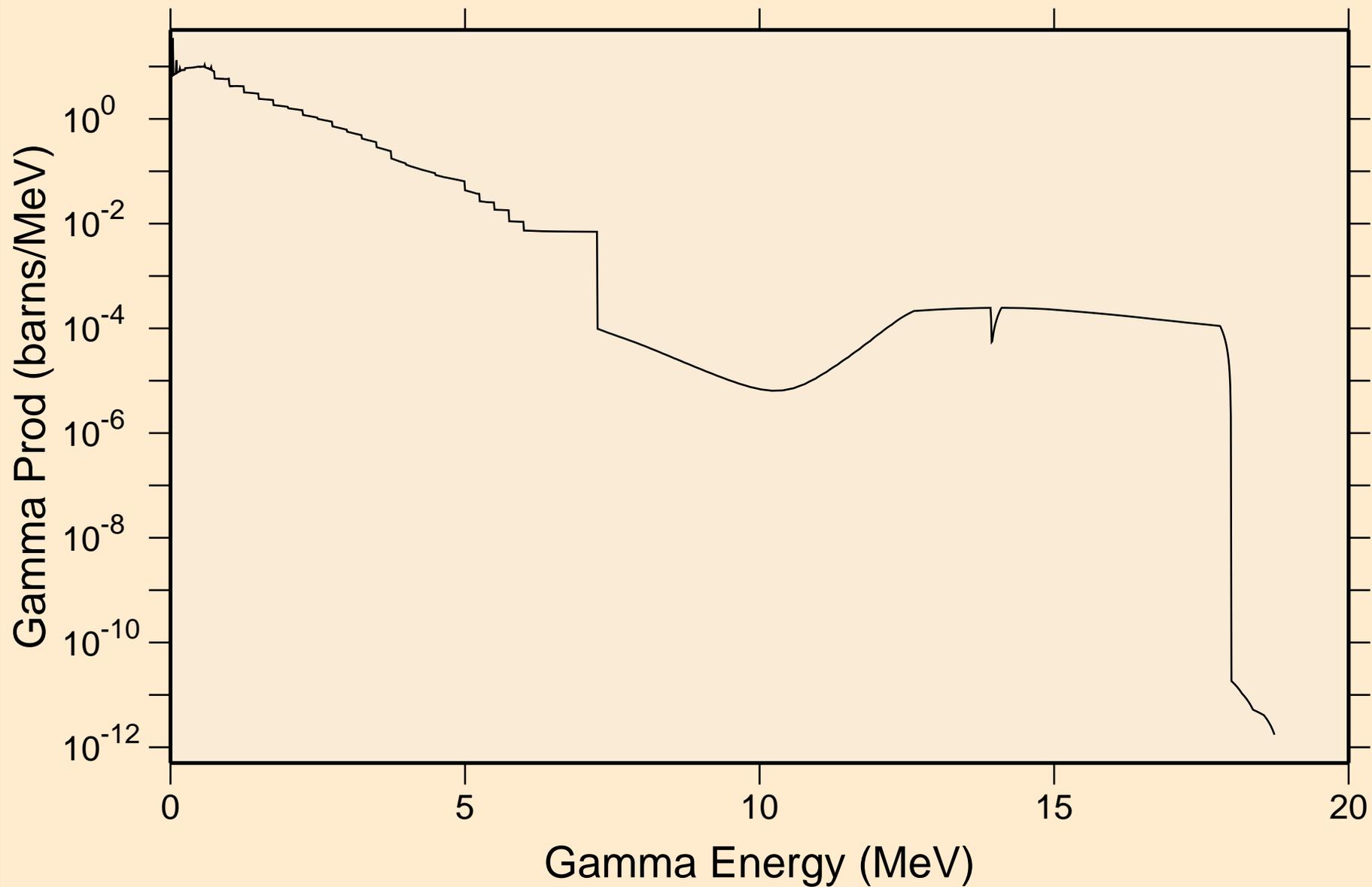
ADVANCE CALCULATIONS

thermal capture photon spectrum



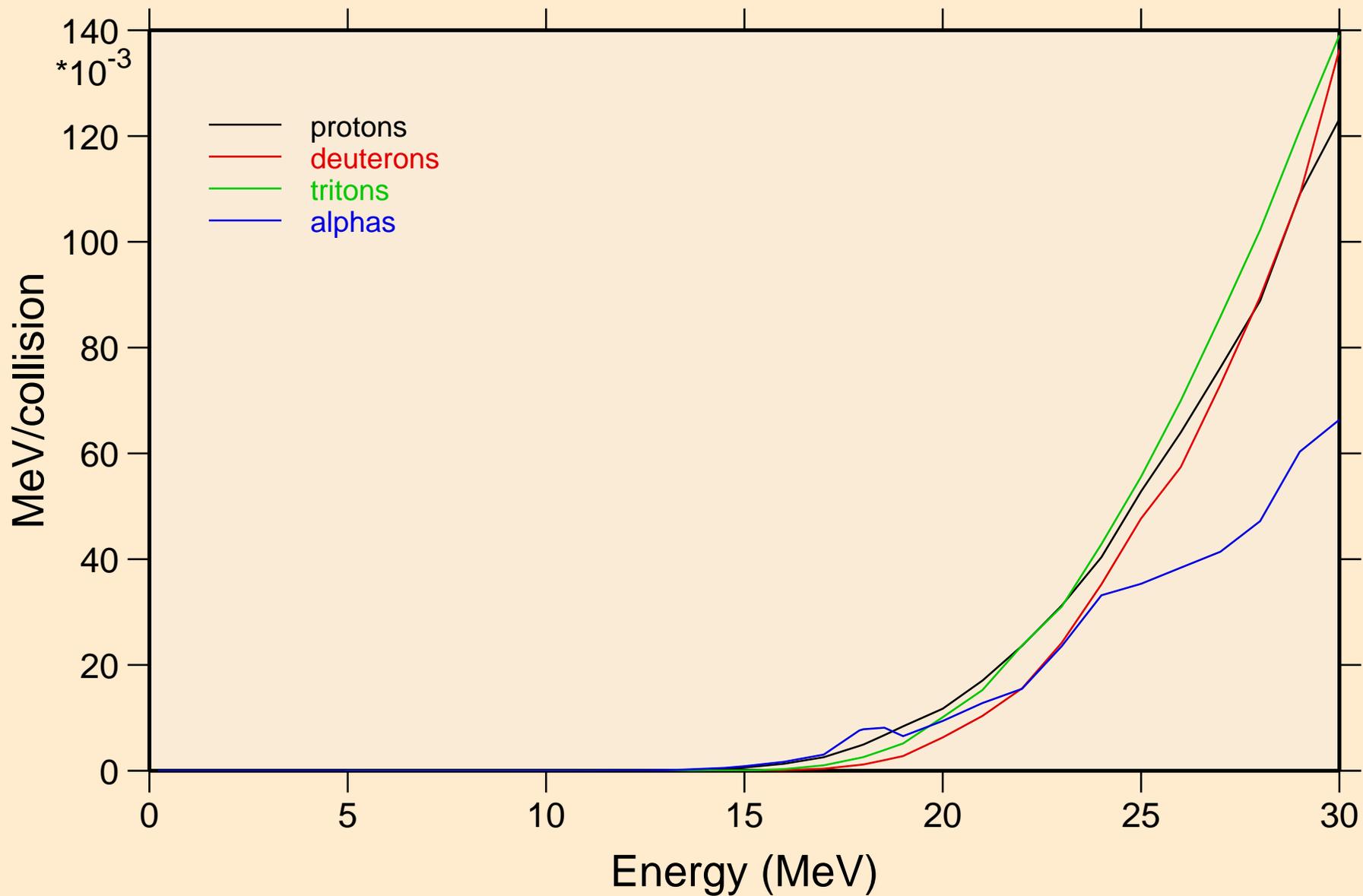
ADVANCE CALCULATIONS

14 MeV photon spectrum



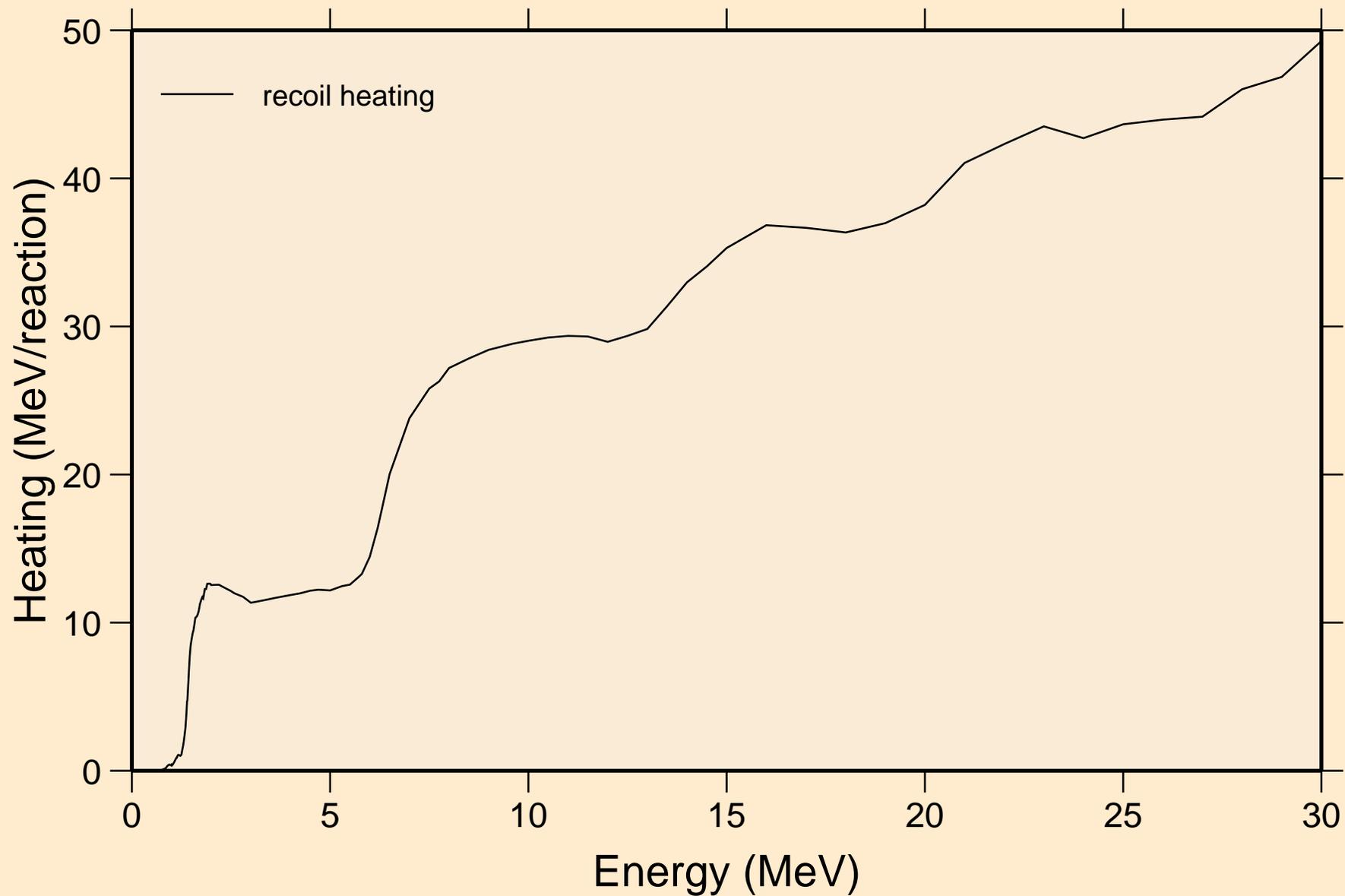
ADVANCE CALCULATIONS

Particle heating contributions



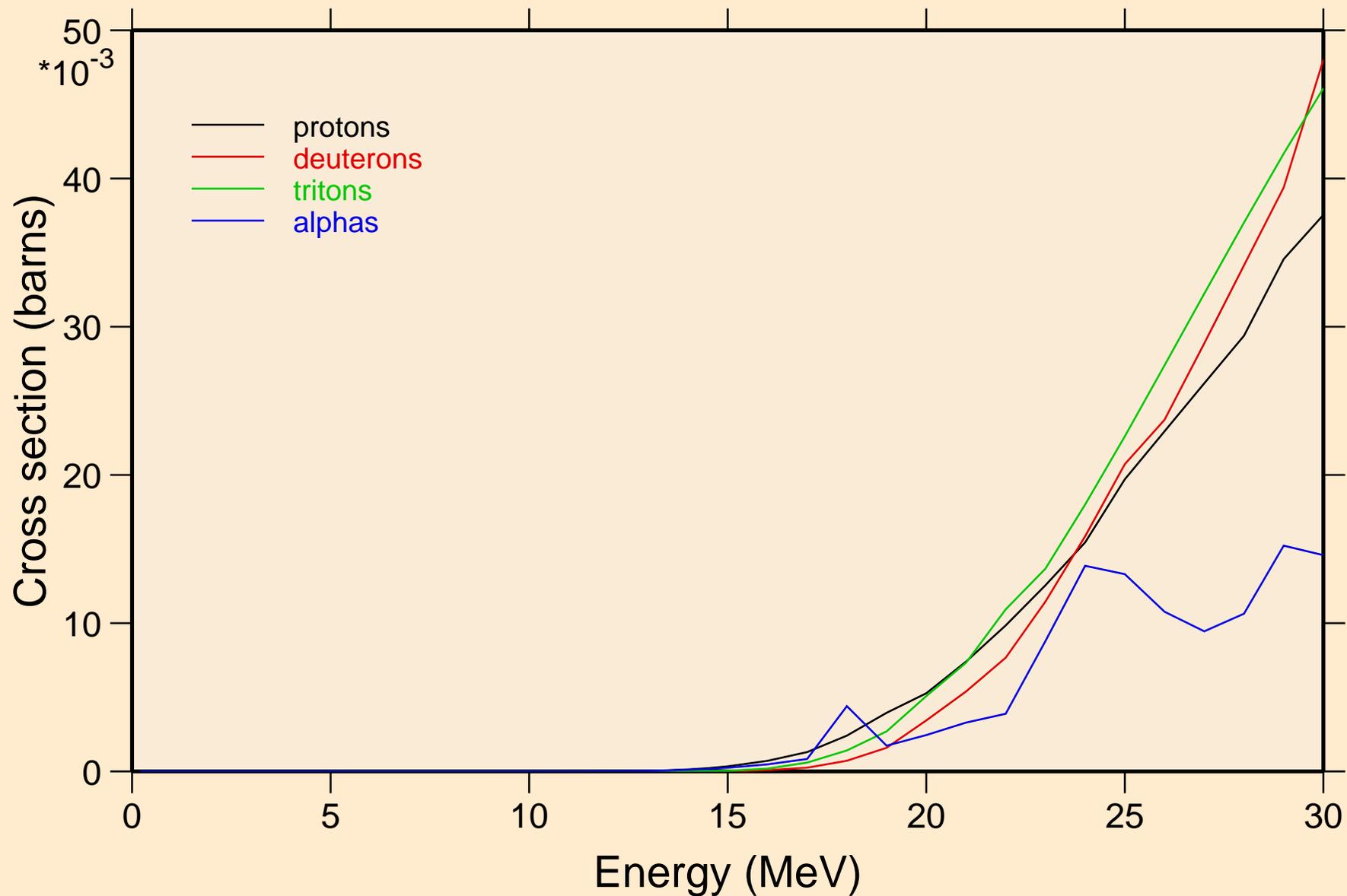
ADVANCE CALCULATIONS

Recoil Heating



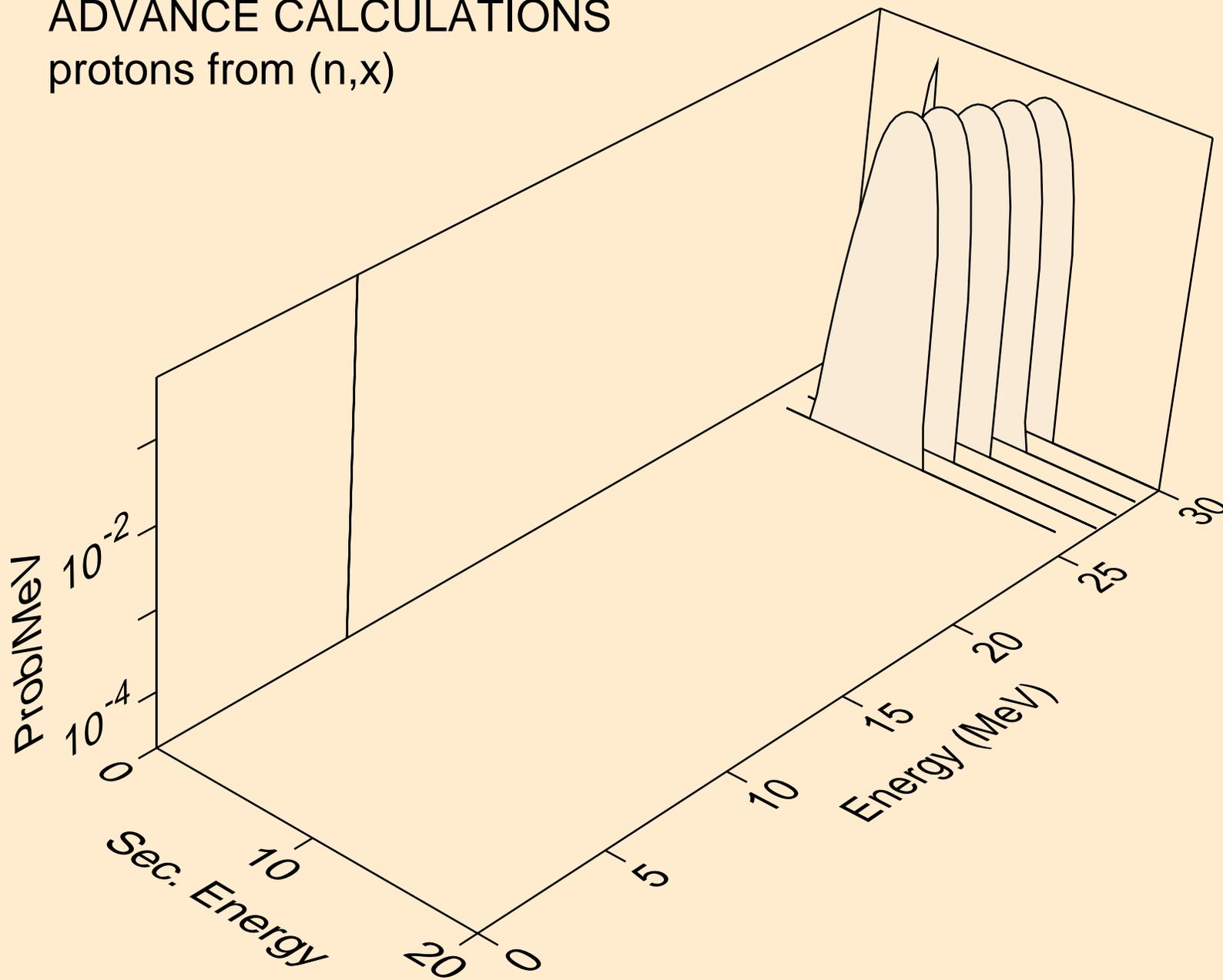
ADVANCE CALCULATIONS

Particle production cross sections



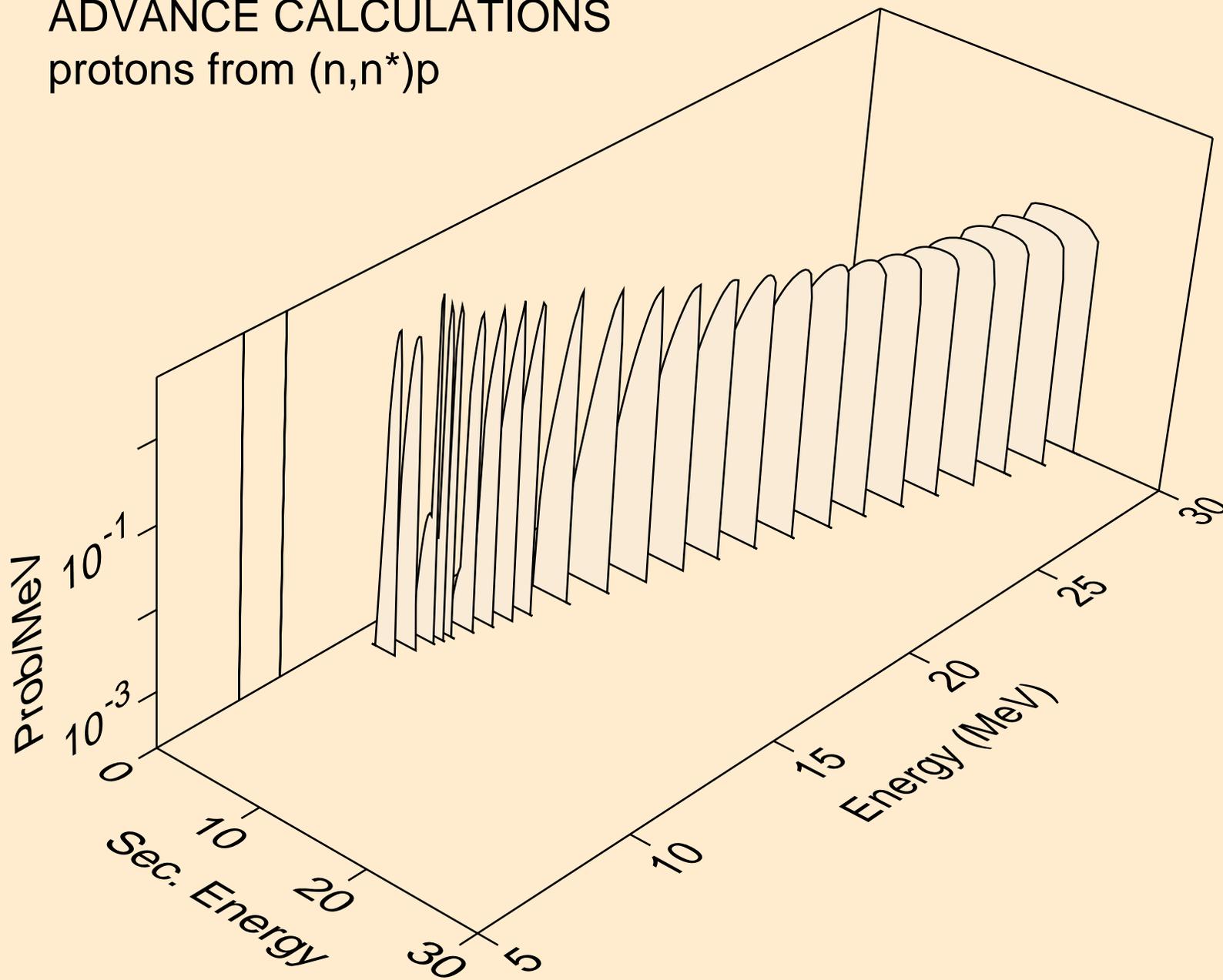
ADVANCE CALCULATIONS

protons from (n,x)



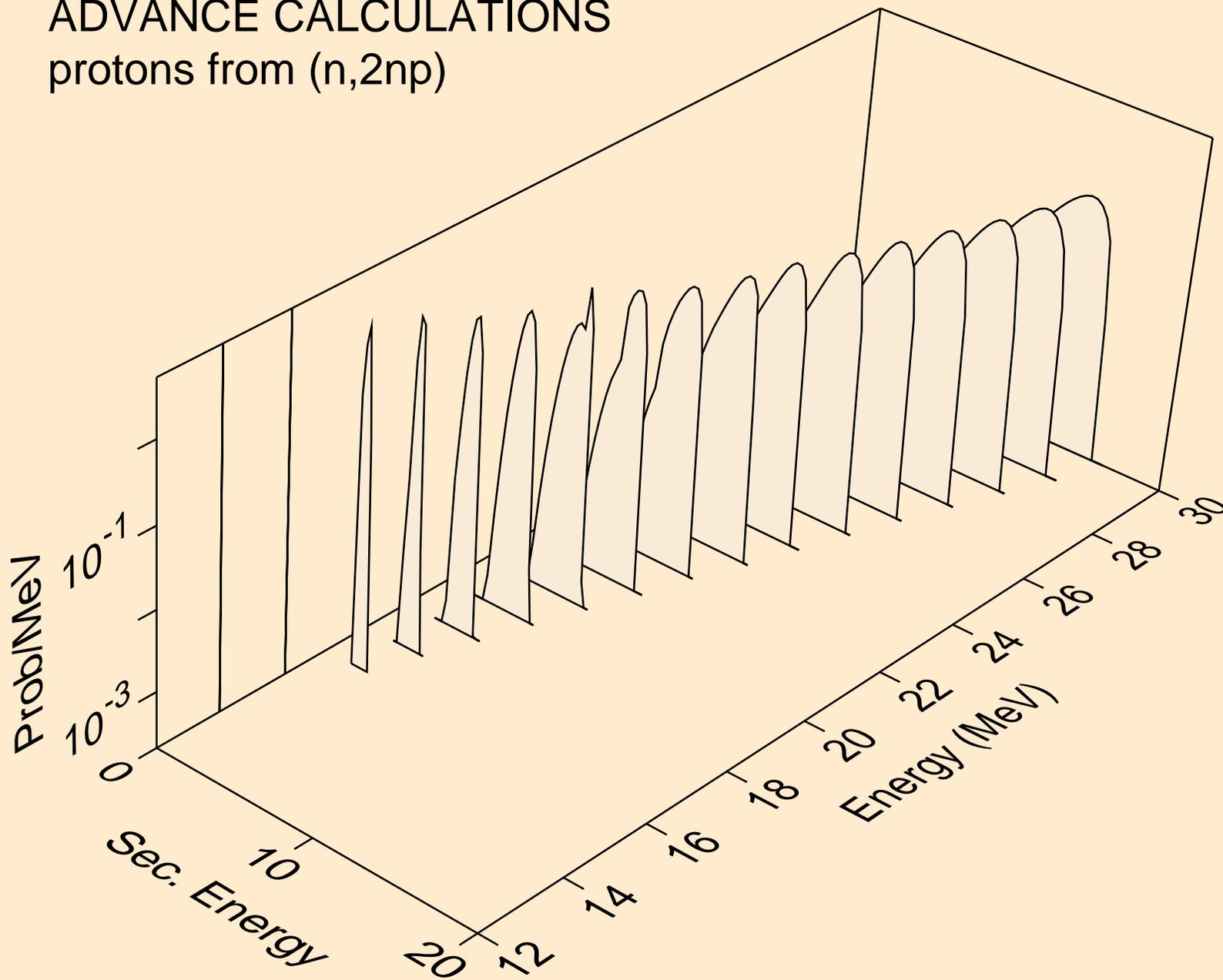
ADVANCE CALCULATIONS

protons from $(n,n^*)p$



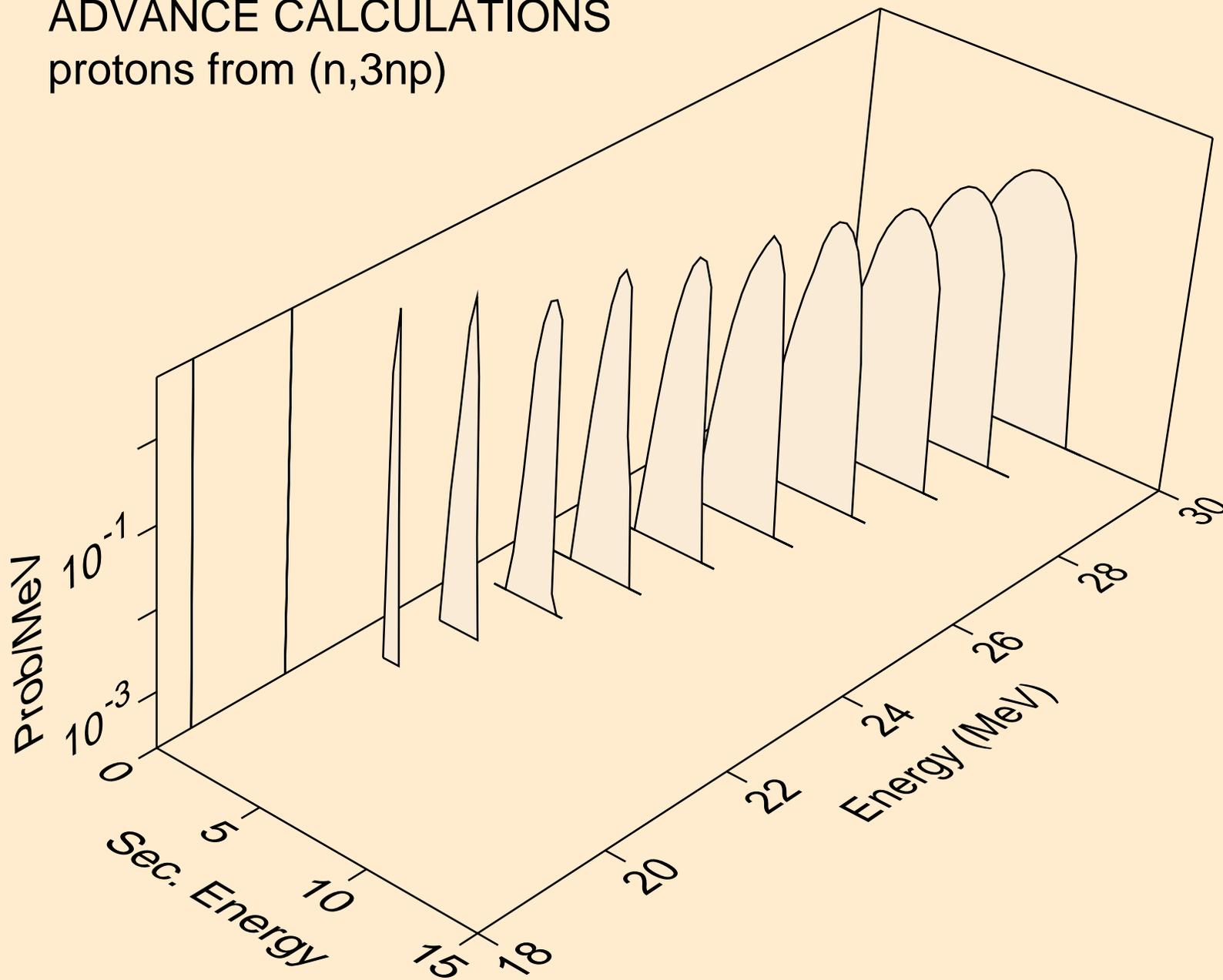
ADVANCE CALCULATIONS

protons from (n,2np)



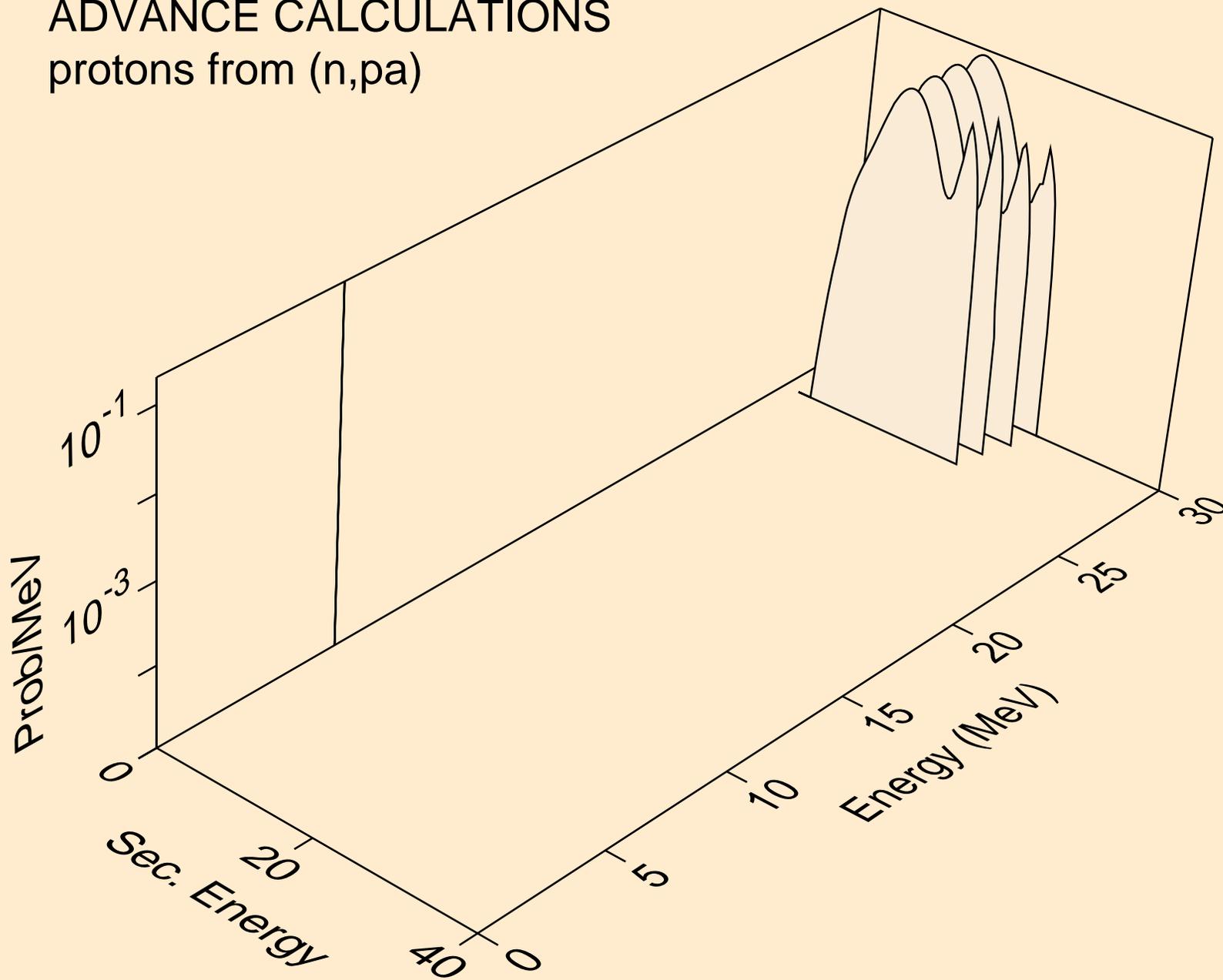
ADVANCE CALCULATIONS

protons from (n,3np)



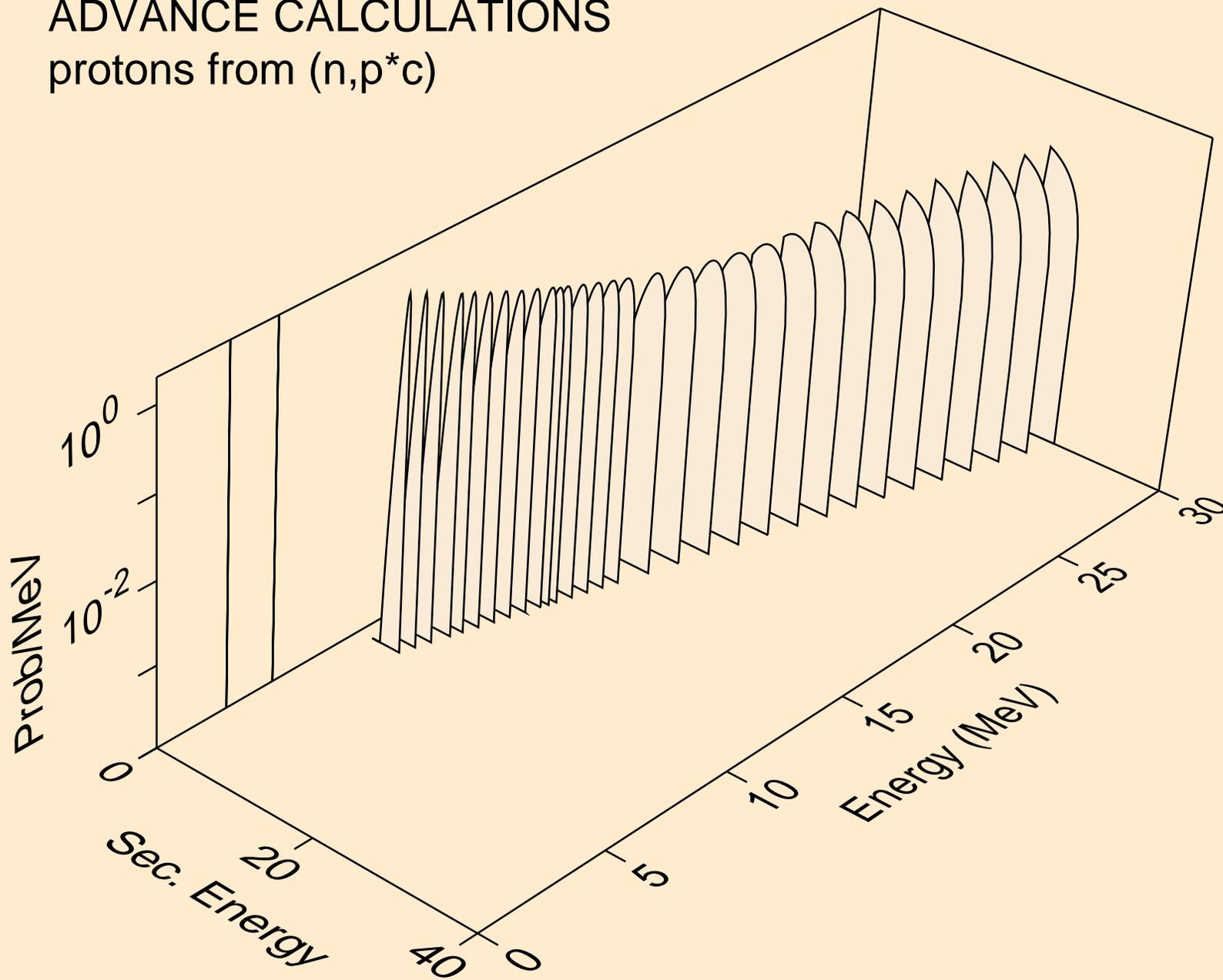
ADVANCE CALCULATIONS

protons from (n,pa)



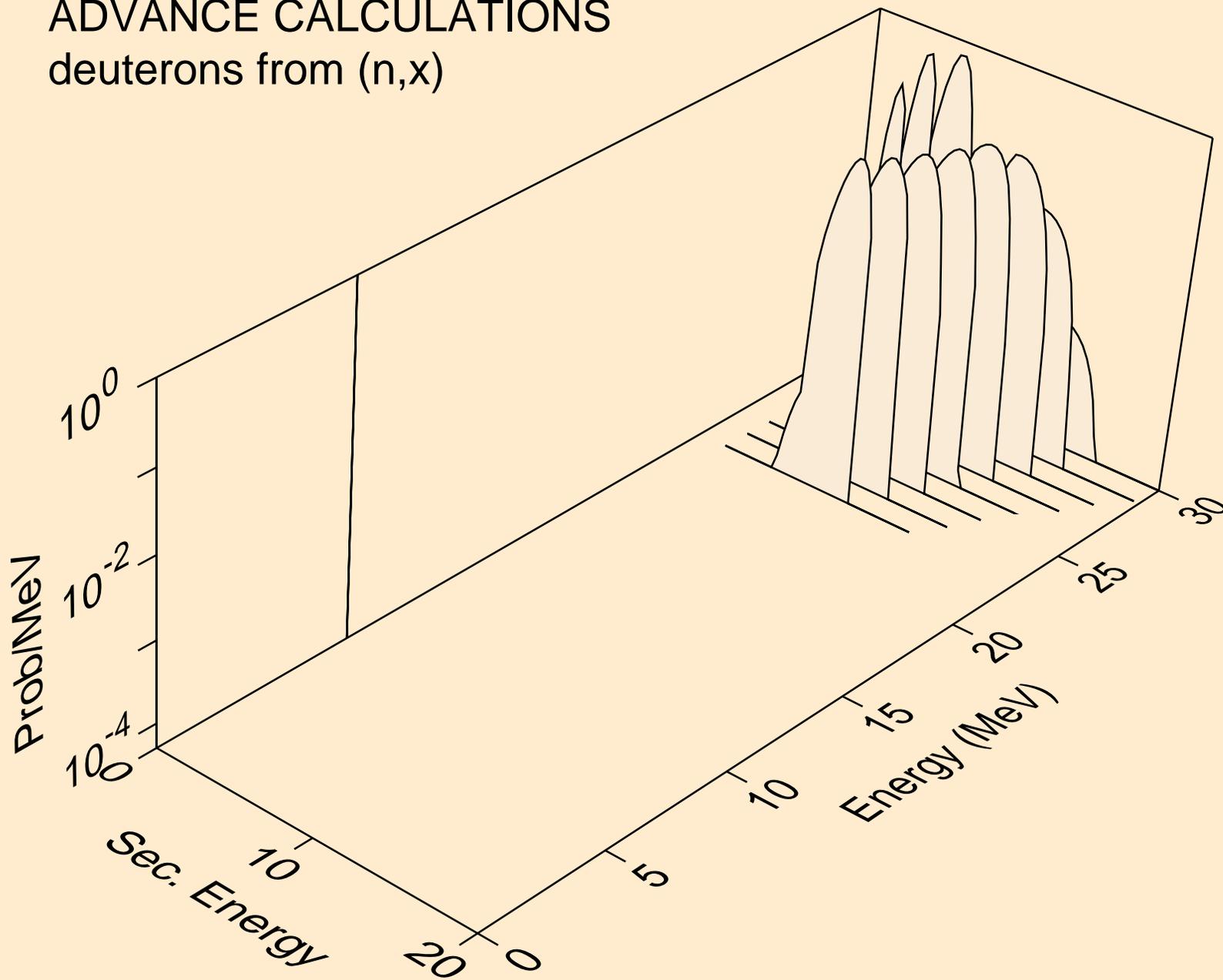
ADVANCE CALCULATIONS

protons from (n,p*c)



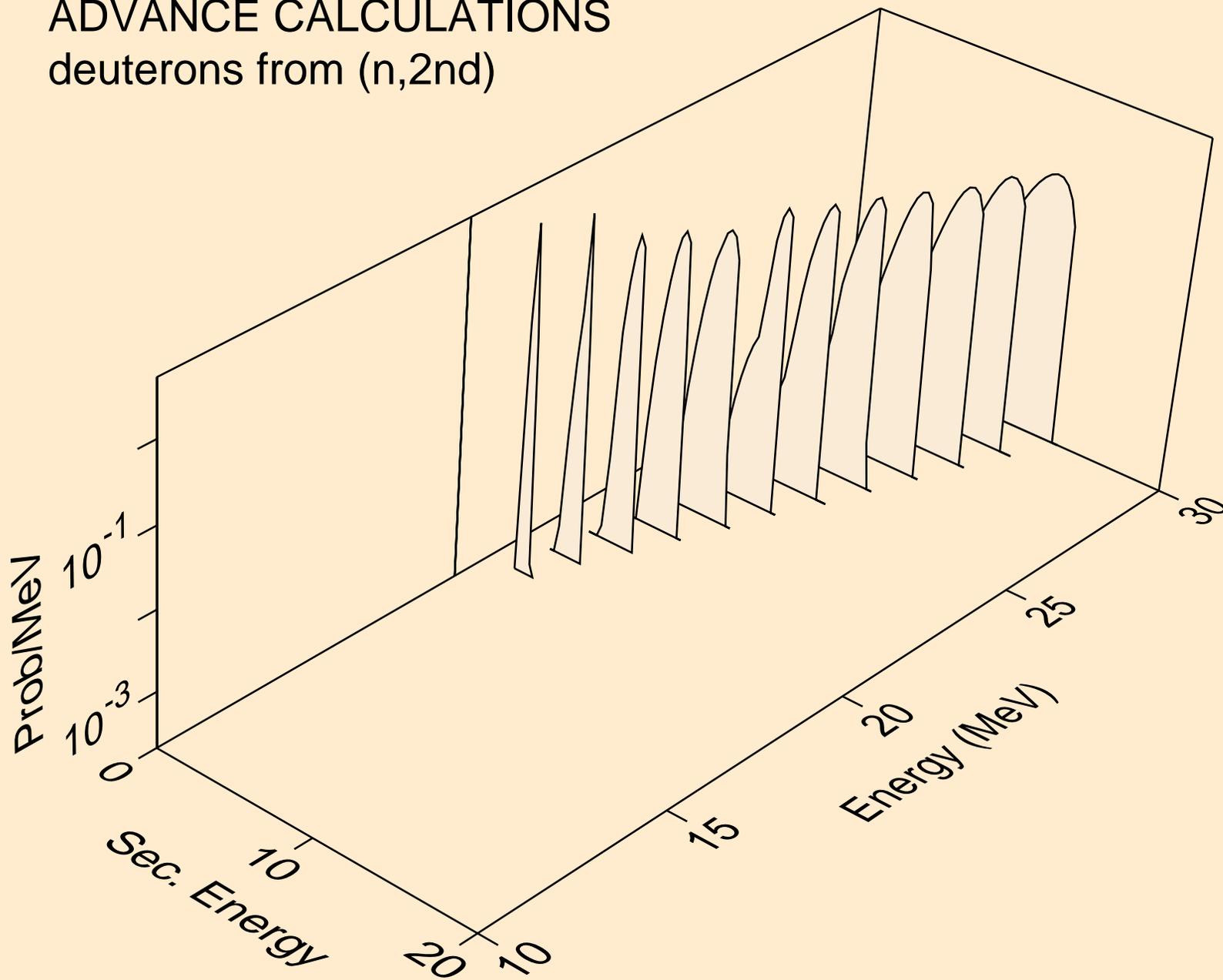
ADVANCE CALCULATIONS

deuterons from (n,x)



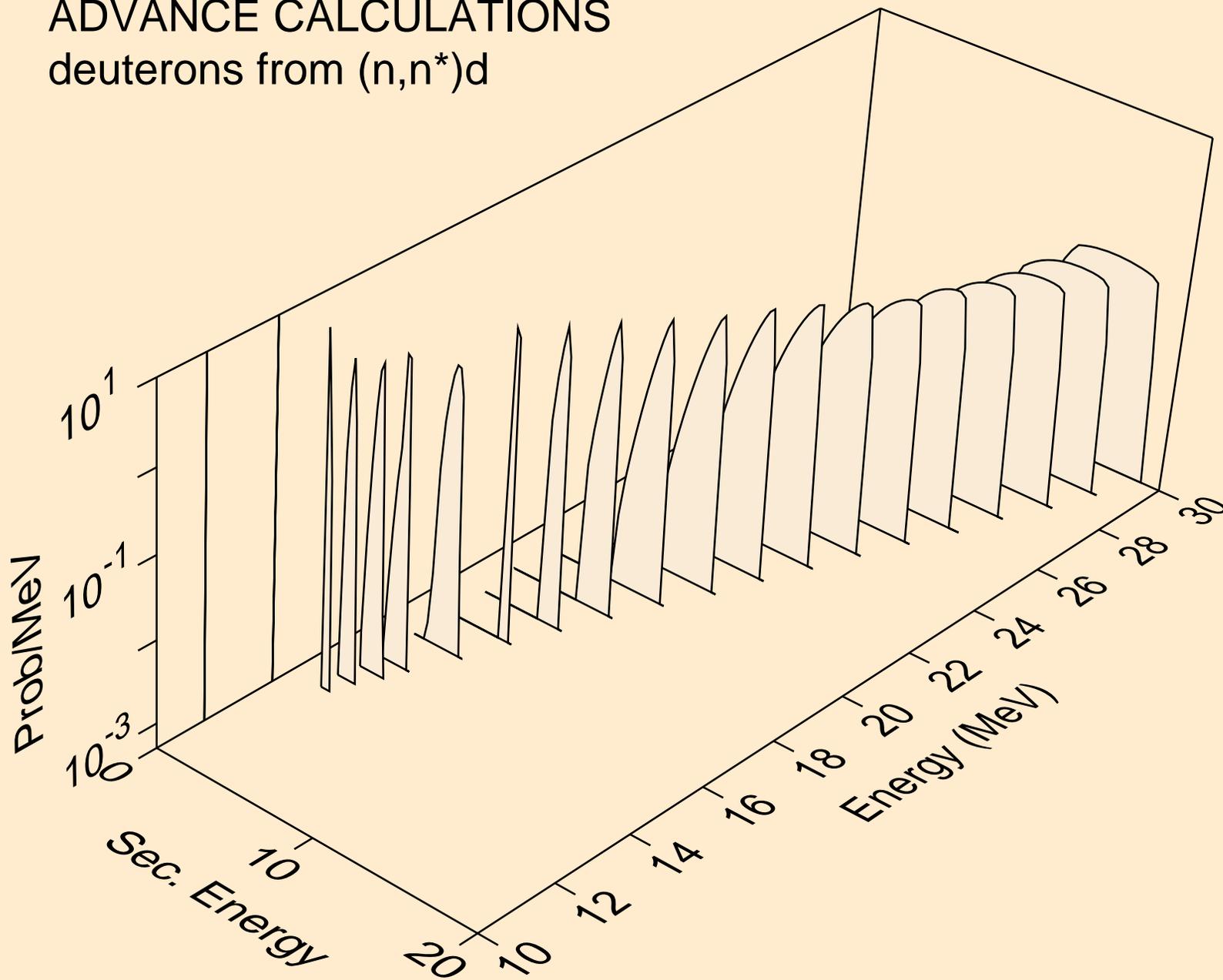
ADVANCE CALCULATIONS

deuterons from (n,2nd)



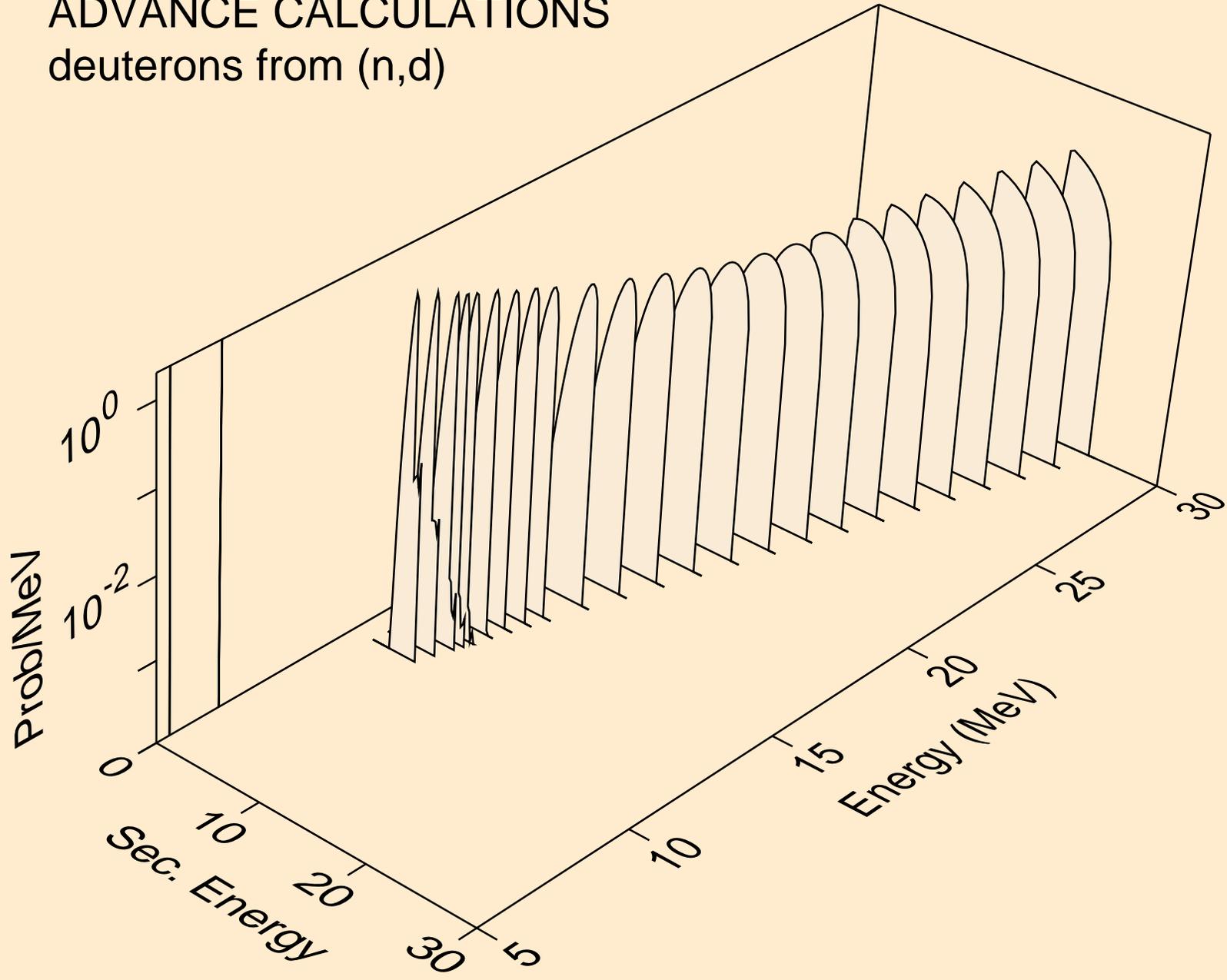
ADVANCE CALCULATIONS

deuterons from $(n,n^*)d$



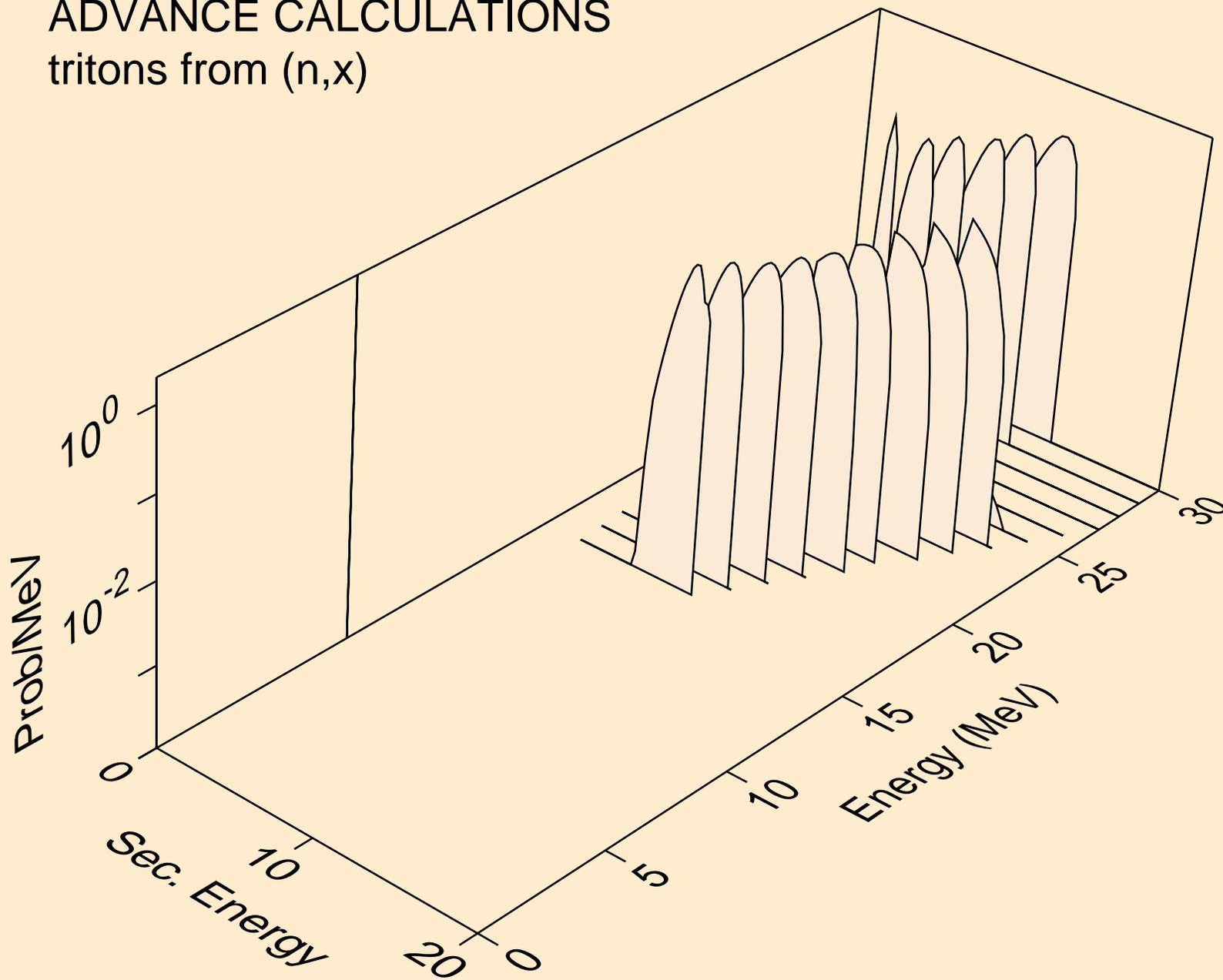
ADVANCE CALCULATIONS

deuterons from (n,d)



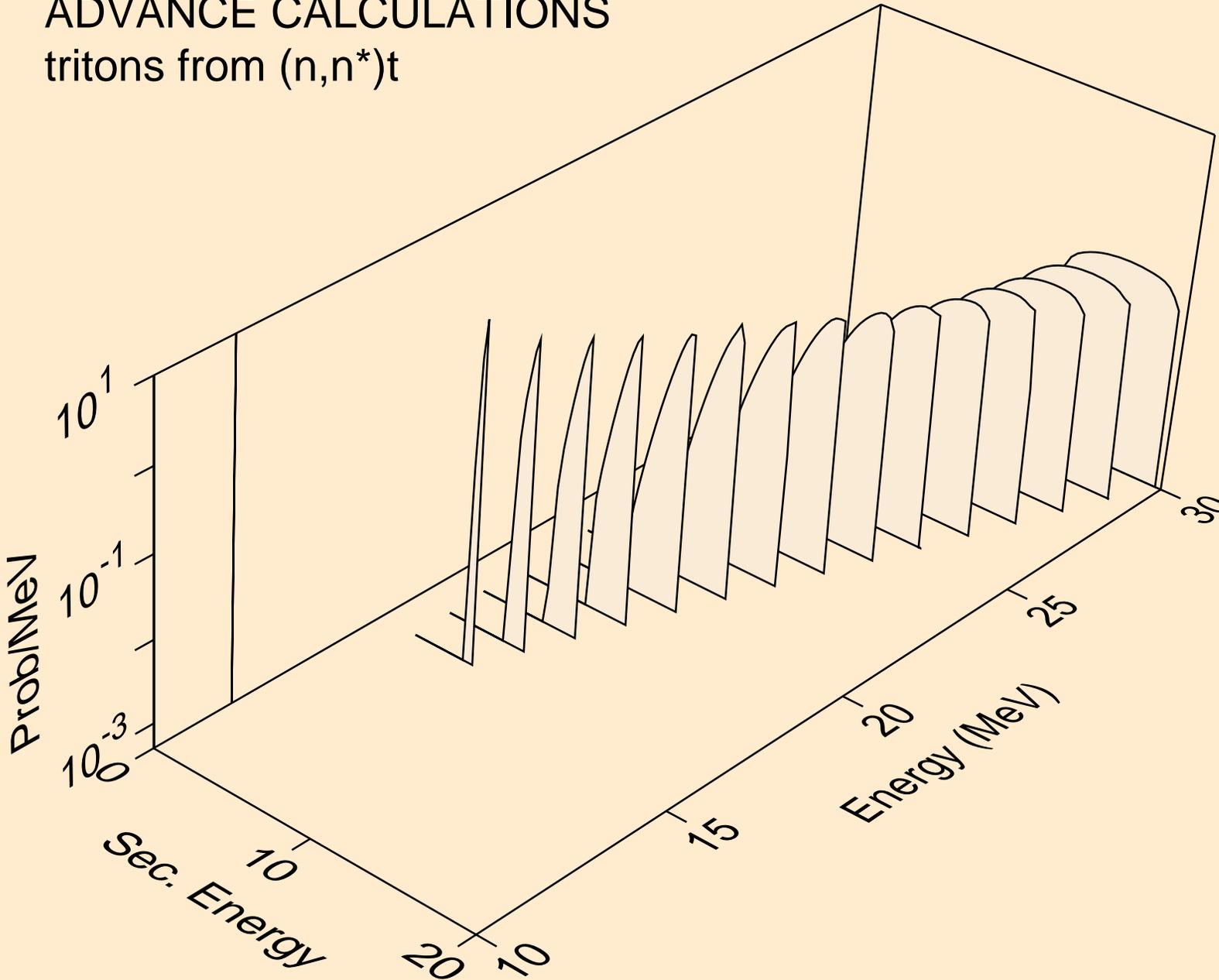
ADVANCE CALCULATIONS

tritons from (n,x)



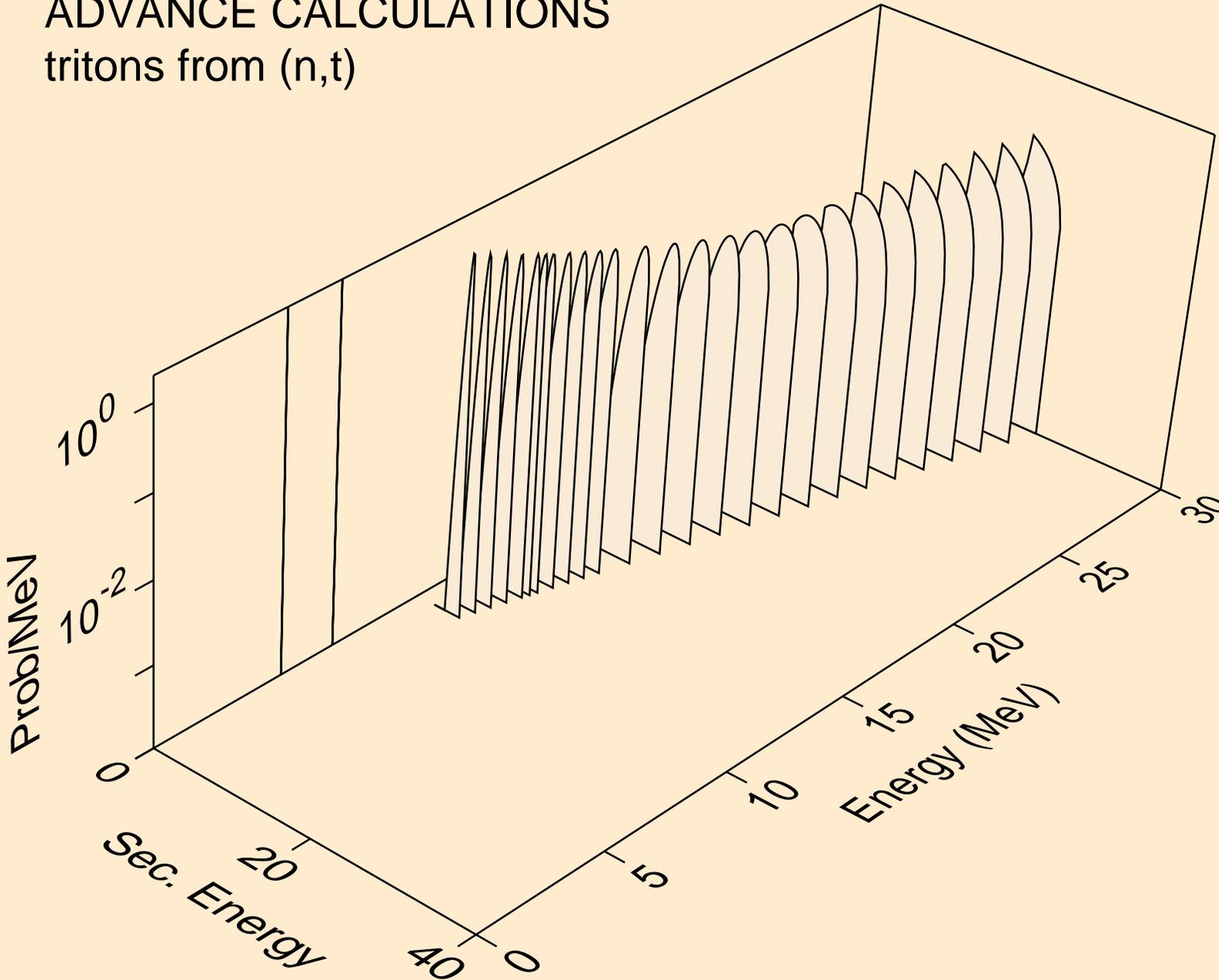
ADVANCE CALCULATIONS

tritons from $(n,n^*)t$



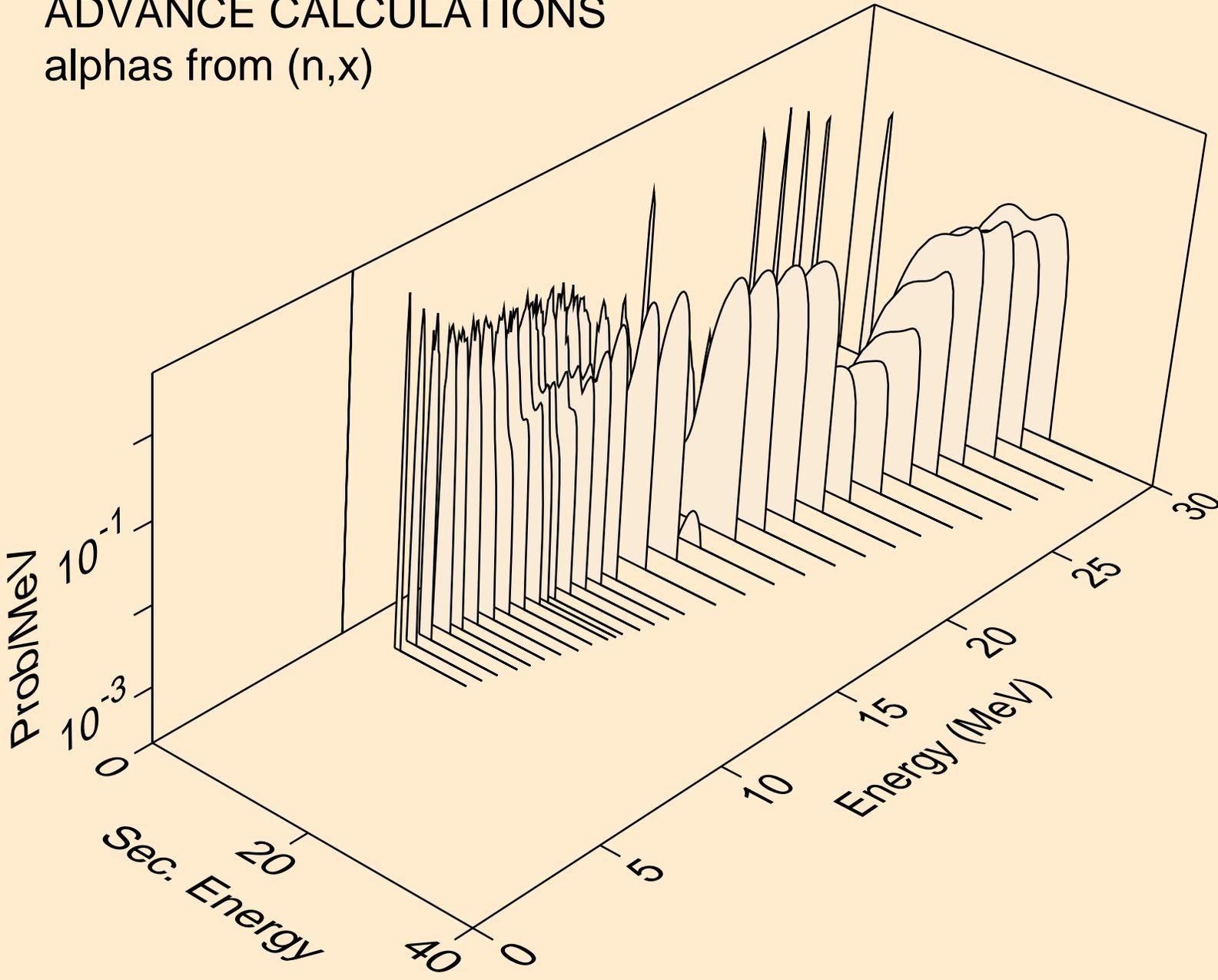
ADVANCE CALCULATIONS

tritons from (n,t)



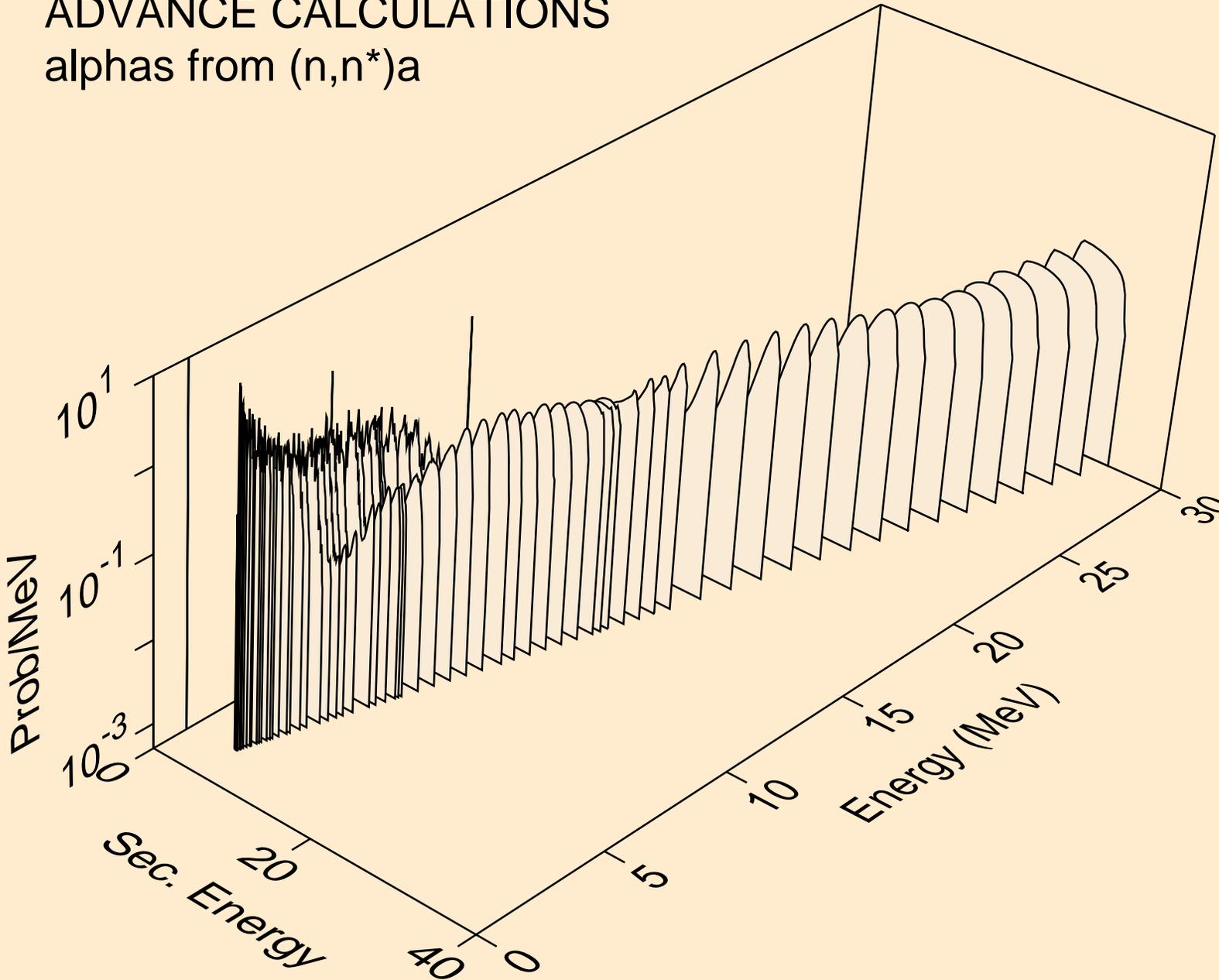
ADVANCE CALCULATIONS

alphas from (n,x)



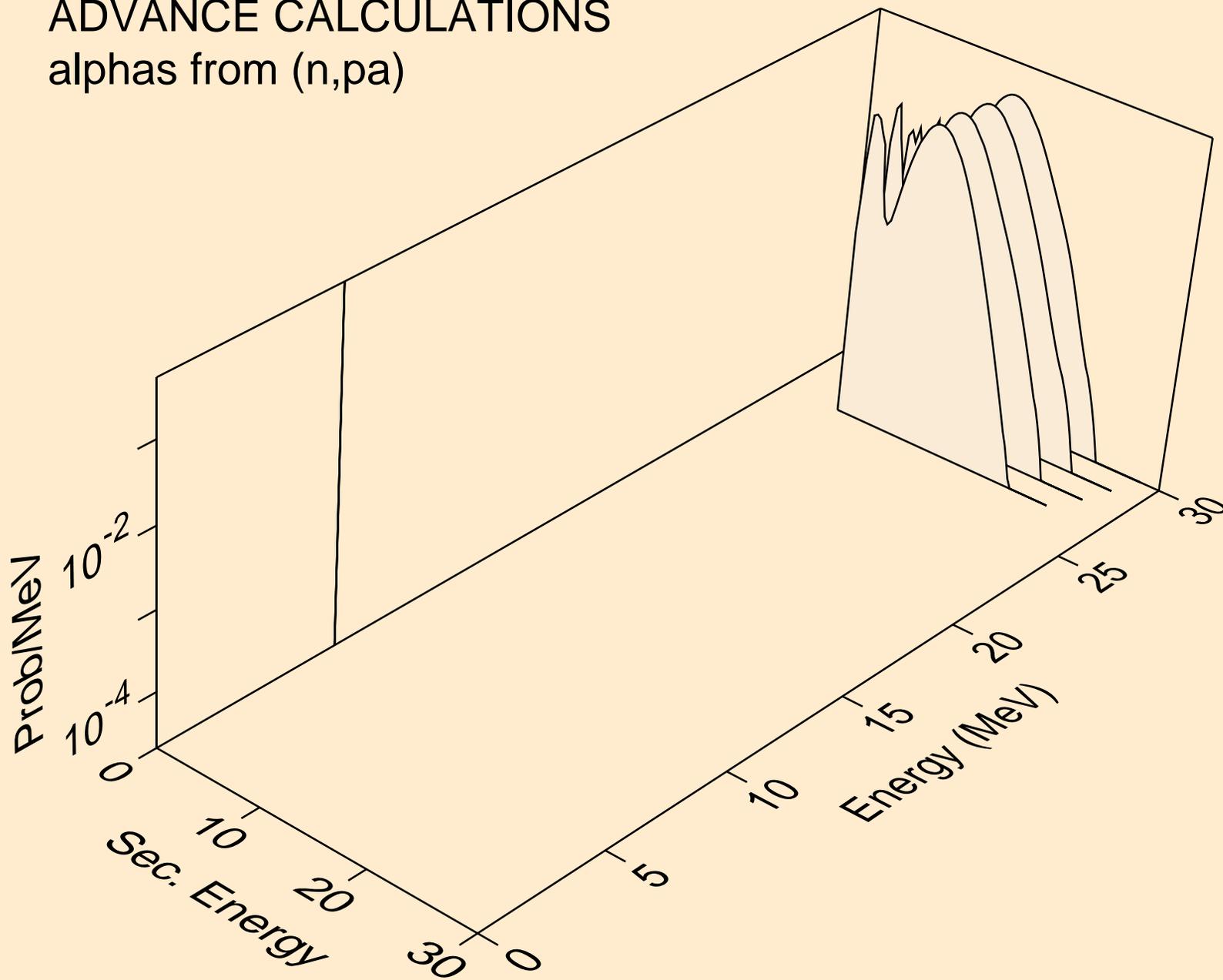
ADVANCE CALCULATIONS

alphas from $(n,n^*)_a$

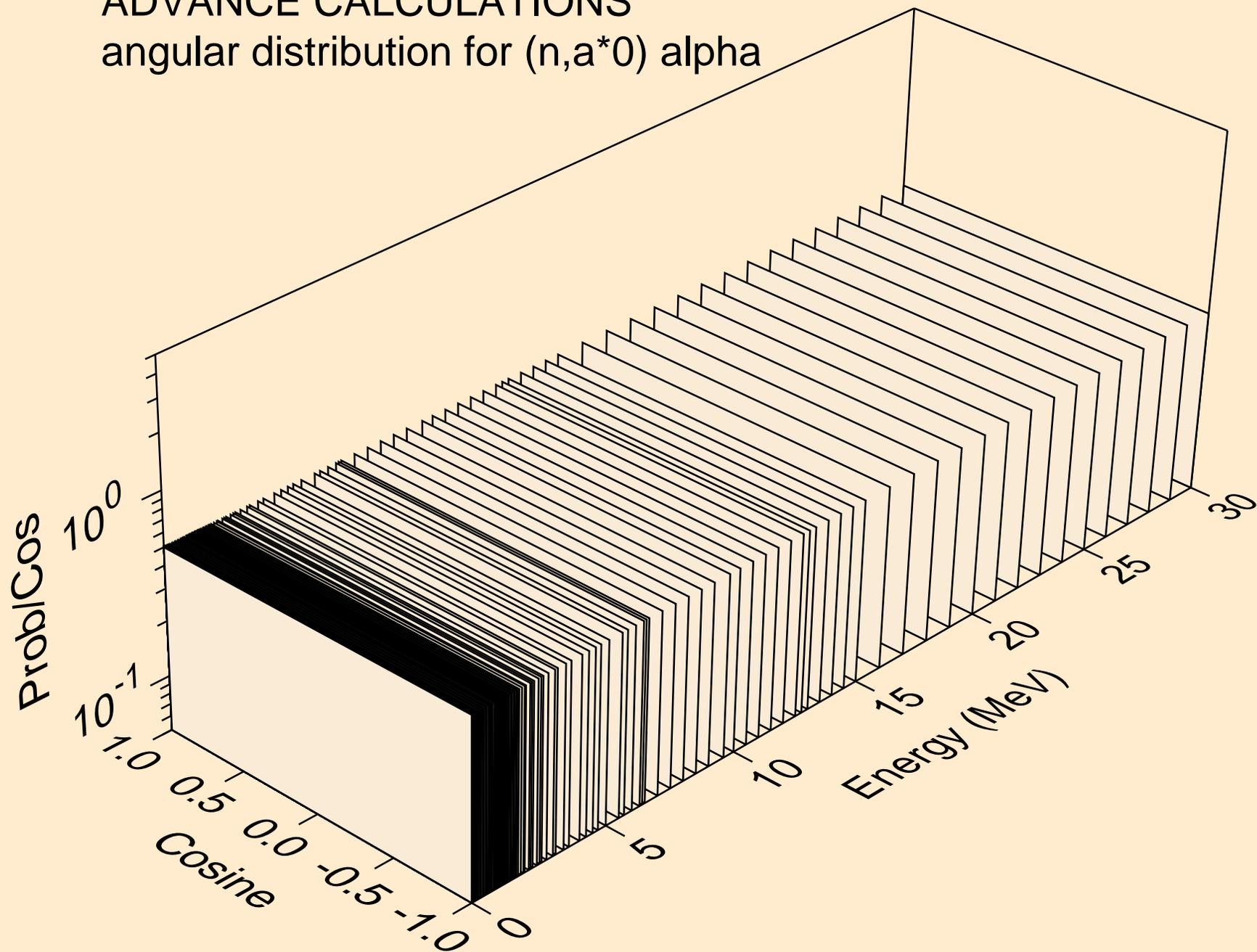


ADVANCE CALCULATIONS

alphas from (n,pa)



ADVANCE CALCULATIONS
angular distribution for (n, α) alpha



ADVANCE CALCULATIONS

alphas from (n,a*c)

